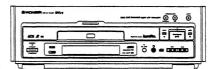


Service Manual



ORDER NO. RRV1783

DVD LD PLAYER

DVL-9

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Туре	Model	Power requirement	Remarks	
Туре	DVL-9	rower requirement	nemarks	
RL	0	AC110 - 120V / 220 - 240V		

• For the DVD section, refer to the service guide RRV1710 for DV-500.

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PIONEER ELECTRONIC CORPORATION 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153, Japan PIONEER ELECTRONICS SERVICE, INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A. PIONEER ELECTRONIC (EUROPE) N.V. Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 501 Orchard Road, #10-00 Lane Crawford Place, Singapore 0923 © PIONEER ELECTRONIC CORPORATION 1997

1. SAFETY INFORMATION

VARO! -

AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASERSÄTEIYLLE. ÄLÄ KATSO SÄTEESEEN.

ADVARSEL :

USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHED SAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.

VARNING!

OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.



LASER kuva 1 Lasersateilyn varoitusmerkki

WARNING!

DEVICE INCLUDES LASER DIODE WHICH EMITS INVISIBLE INFRARED RADIATION WHICH IS DANGEROUS TO EYES. THERE IS A WARNING SIGN ACCORDING TO PICTURE 1 INSIDE THE DEVICE CLOSE TO THE LASER DIODE.



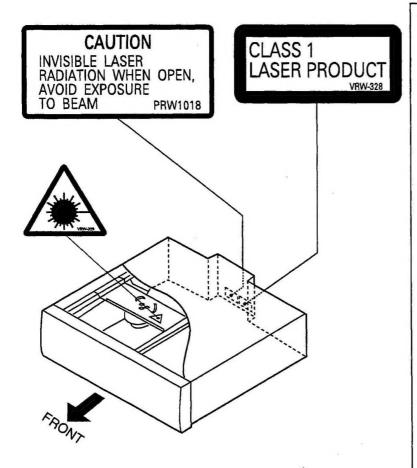
LASER
Picture 1
Warning sign for

- IMPORTANT -

THIS PIONNER APPARATUS CONTAINS LASER OF CLASS 1.
SERVICING OPERATION OF THE APPARATUS SHOULD BE DONE BY A SPECIALLY INSTRUCTED PERSON.

LASER DIODE CHARACTERISTICS -MAXIMUM OUTPUT POWER : 5 mw WAVELENGTH : 780-785 nm

LABEL CHECK



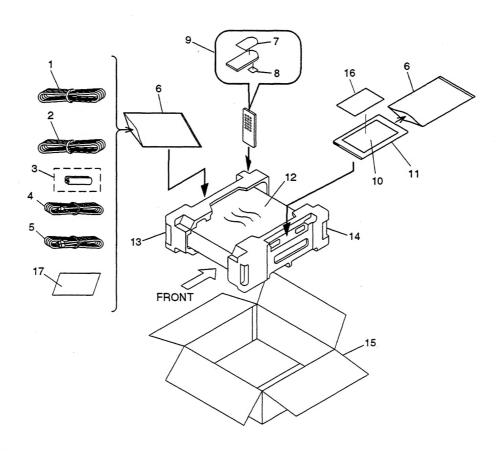
Additional Laser Caution

- 1. The ON/OFF statuses of the side-A/B detection switch (Lever switch connecting to the TNMB assy), slider-position detection switches (INNER and OUTER on the PKSB assy), loading-status detection switches (SW1, 2 and 3 on the LMSB assy), side B inside detection switch (S901 on the BISB assy) and CLD pickup active detection switch (S903 on the LCSB assy) are detected by the microprocessor (IC101 in the CLD MAIN assy). Also the DVD pickup active detection switch (S902 on the DCSB assy) is detected by the microprocessor (IC201 in the DVD MAIN assy).
- To permit the laser diode of CLD pickup to oscillate, it is required to set the CLD pickup active detection switch (S903: OFF) and the slider-position detection switches for the LD ACTIVE status (INNER: OFF, OUTER: OFF), and to set the loading-status detection switches for tilt neutral state (SW1: ON, SW2: OFF, SW3: ON). As long as these requirements are not satisfied, the laser diode will not oscillate. When the requirements are met in any way, the laser diode can oscillate. The laser diode oscillation will continue if pin 13 of IC801 is shorted to GND or the emitter and collector of Q834 are shorted each other (fault condition) in the CLD MAIN assy.
- To permit the laser diode of DVD pickup to oscillate, it is required to set the DVD pickup active detection switch (S902:OFF) and each switch and a state of laser diode are contents same as state of CLD pickup mentioned above. The laser diode oscillation will continue if pin 5 of IC995 is shorted to +5V (fault condition) in the DVD MAIN assy. In the test mode *, the laser diode oscillates when the microprocessor detects a PLAY signal, or when the PLAY key is pressed (S204 ON in the KEYB assy), with the above requirements satisfied.
- When the cover is open, close viewing through the objective lens with the naked eye will cause exposure to a Class 1 laser beam.
- *: Refer to page 79.

2. EXPLODED VIEWS AND PARTS LIST

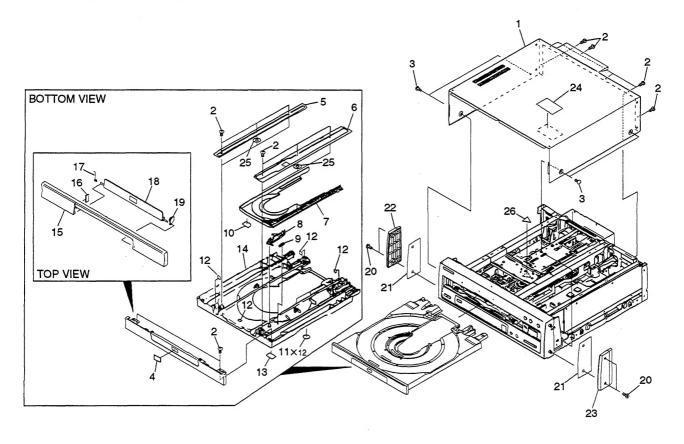
- NOTES: Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
 The \triangle mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
 - Screws adjacent to \forall mark on the product are used for disassembly.

2.1 PACKING



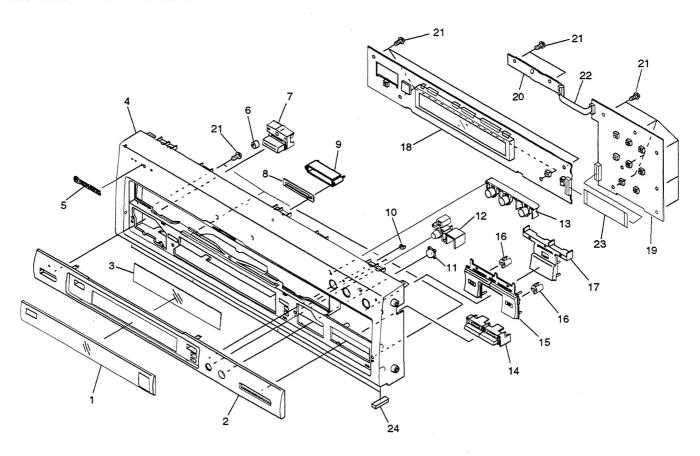
Mark	No	. Description	Part No.	Mark	No	. Description	Part No.
$\Delta\!$	1	Power Cord (Round Blade 2-Pin AC Plug)	ADG1154		9	Remote Control Unit (CU-DV002)	VXX2428
Δ	2	Power Cord	ADG1158	NSP	10	Warranty Card	ARW1020
		(Flat Blade 2-Pin AC Plug)			11	Operating Instructions	VRD1065
NSP	3	Dry Cell Battery (R03,AAA)	VEM-022			(English/Chinese)	
	4	Video Cord	VDE1036		12	Mirror Mat	VHL1018
	5	Audio Cord	VDE1033		13	Pad L	VHA1195
	6	Polyetylene Bag	Z21-038		14	Pad R	VHA1196
	7	Upper Cover	VNK3941		15	Packing Case	VHG1640
	8	Battery Cover	VNK3920	NSP	16	Caution	VRM1067
						_	
				NSP	17	Caution	VRM1068

2.2 EXTERIOR SECTION



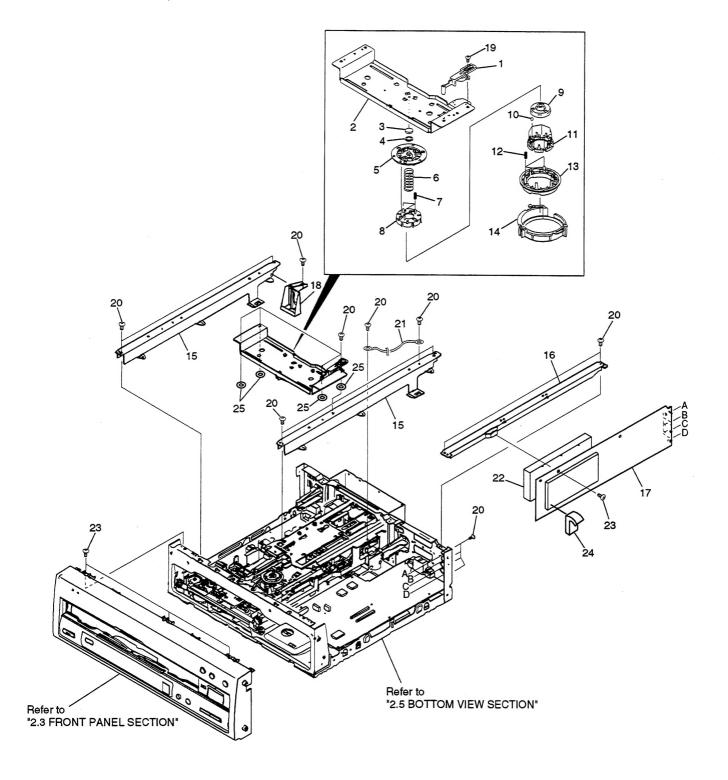
Mark 1	No.	Description	Part No.	Mark	No	. Description	Part No.
	1	Bonnet Case S	VXX2483		14	LD Tray Assy	VXA2302
	2	Screw	BBZ30P080FMC		15	Tray Panel	VNK3606
	3	Screw	BCZ40P060FZK		16	Door Holder	VEC1904
	4	DVD Plate	VAM1066		17	Door Spring	VBH1248
	5	Guide Plate (R)	VNE1939		18	DVD Door Assy	VXA2273
	6	Guide Plate (L)	VNE1938		19	Damper Assy	VXA1999
	7	CD Tray	VNK3664		20	Screw	VBA1028
	8	Lock Plate	VNL1703		21	Side Spacer	VNK3860
	9	Lock Plate Spring	VBH1188		22	Side Panel L	VNK3679
1	10	Tray Label	VRW1628		23	Side Panel R	VNK3680
1	11	Cushion	VEC1881		24	Label (REGIONAL)	VRW1654
1	12	Damp Cushion	VEC1683		25	Washer	VEC1254
NSP 1	13	Carry Label	VRW1289		26	Caution Label (G)	VRW-329

2.3 FRONT PANEL SECTION



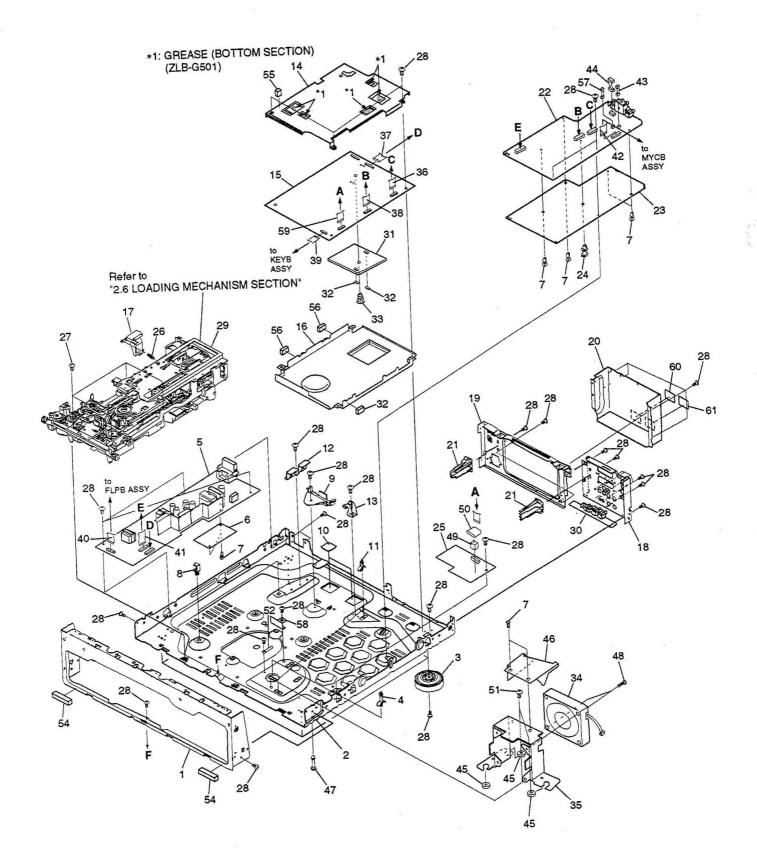
<u>Mark</u>	No.	Description	Part No.	<u>Mark</u>	No.	Description	Part No.
	1	FL Lens	VNK3599		13	Open Button	VNK3598
	2	Sub Panel	VNK3663		14	Skip Button	VNK3603
	3	FL Filter	VEC1891		15	Side Button	VNK3660
	4	Front Panel	VNK4027		16	Side Lens	VNK3602
	5	Name Plate	VAM1051		17	Play Button	VNK3600
	6	LED Lens	PNW2019		18	FLPB Assy	VWG1841
	7	Power Button	VNK3607		19	KEYB Assy	VWG1842
	8	Illumination Lens	VNK3652		20	LEDB Assy	VWG1832
	9	LED Holder	VNK4001				
	10	LED Lens 1	RNK2066		21	Screw	BBZ30P080FMC
					22	Flexible Cable (5P)	VDA1590
	11	IR Window	VNK2246		23	Flexible Cable (19P)	VDA1603
	12	Display Button	VNK3667	NSP	24	Spacer A	VEC1933

2.4 TOP VIEW SECTION

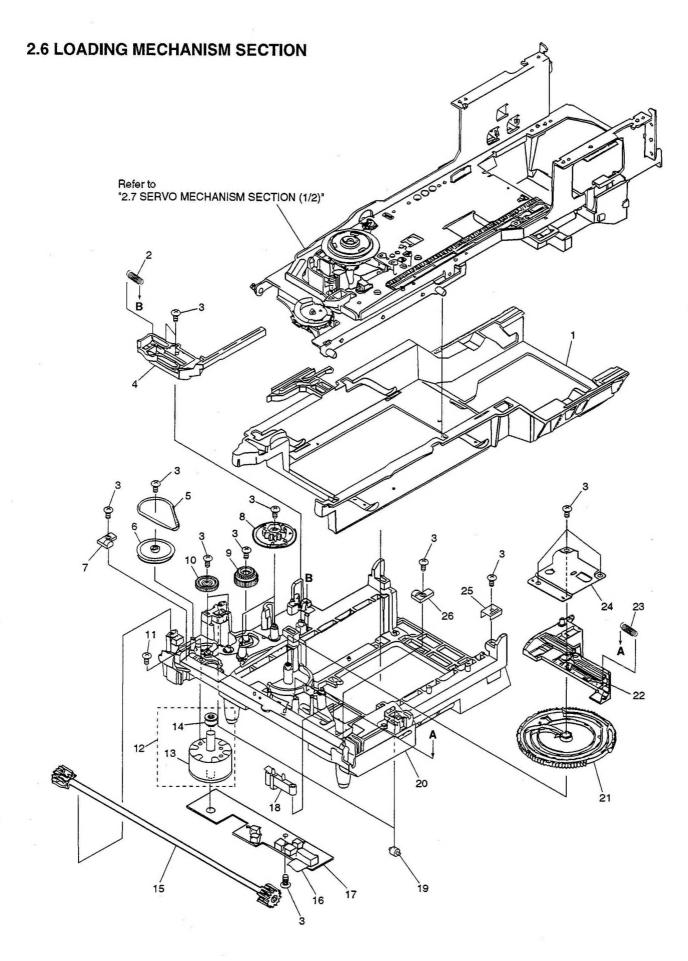


Mark No.	. Description	Part No.	Mark	No.	Description	Part No.
1 2 3 4 5	D Lever Assy Center Plate Rubber Sheet Thrust Holder Clamper Head	VXA2205 VNE2051 VEB1114 VNL1663 VNL1603	NSP NSP	13 14 15 16 17	Clamper Clamper Holder Center Angle PCB Holder MGYCB Assy	VNL1604 VNL1708 VNE2048 VNE2049 VWV1468
6 7 8 9 10	LD Spring Cover Spring Ball Cover LD Hab Steel Ball	VBH1240 VBH1234 VNL1602 VNT1047 VNX1013	NSP	18 19 20 21 22	Shipping Cam Screw Screw Wire Shield Case B	VNL1729 PBZ20P060FMC BBZ30P080FMC DE007VF0 VNF1099
11 12	Ball Guide Clamp Spring	VNL1616 VBH1239		23 24 25	Screw Cushion Washer	IBZ30P080FMC VEC1925 VEC1952

2.5 BOTTOM VIEW SECTION

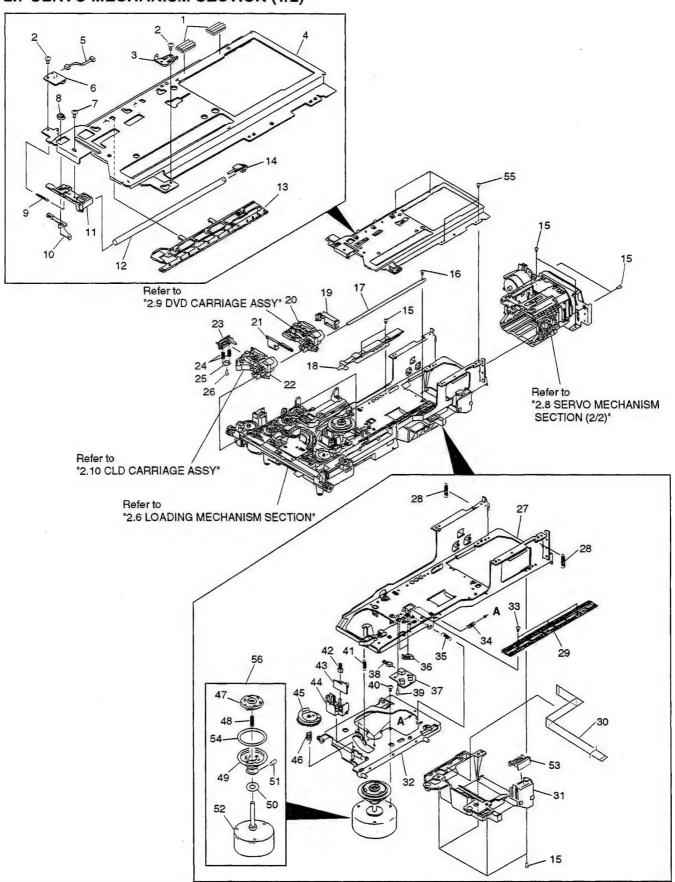


Mark	No.	Description	Part No.	Mark	No	. Description	Part No.
NSP NSP	1 2 3	Panel Holder Chassis Insulator	VNA1686 VNA1851 PNW1912	NSP	31 32 33	FTSB Assy Spacer A PCB Holder	VWS1291 VEC1933 AEC1534
NSP	4 5	Spacer 40 POWER SUPPLY Assy	PNW2488 VWR1274		34 35	DC Fan Motor Fan Holder	VXM1070 VNE2108
NSP	6 7 8 9 10	Sheet P Rivet PCB Hinge Stopper Rubber Spacer	VEC1874 RBM-003 VEC1174 VNE2088 VEC1939		36 37 38 39 40	Flexible Cable (26P) Flexible Cable (24P) Flexible Cable (30P) Flexible Cable (13P) Flexible Cable (5P)	VDA1587 VDA1588 VDA1586 VDA1589 VDA1572
NSP NSP NSP	11 12 13 14 15	PCB Spacer Cam Holder L Cam Holder R Shield Case (Upper) DVD MAIN Assy	AEC1188 VNE2089 VNE2090 VNF1093 VWS1312		41 42 43 44 45	Flexible Cable (15P) Flexible Cable (10P) Housing Assy (2P) Housing Assy (8P) Rubber Bush	VDA1582 VDA1583 VKP2138 VKP2139 VEB1164
,	16 17 18 19 20	Shield Case (Lower) Shipping Lever Rear Panel L Rear Panel R Rear Cover	VNF1110 VNL1728 VNA1807 VNA1684 VNA1812	NSP NSP A	46 47 48 49 50	Fan Cover Locking Card Spacer Screw Spacer B Ferrite Core	VEC1921 VEC1596 IBZ30P150FMC VEC1934 VTH1038
NSP	21 22 23 24 25	Tray Stopper CLD MAIN Assy Sheet C PCB Spacer MCRB Assy	VNL1707 VWS1284 VEC1875 AEC1372 VWV1544	NSP NSP NSP	51 52 53 54 55	Screw Cord Holder • • • • • Cushion Spacer C	VBA1029 ZCB-069Z VEC1923 VEC1935
NSP	26 27 28 29 30	Shipping Spring Screw Screw Mechanism Assy JCKB Assy	VBH1275 BBZ30P100FMC BBZ30P080FMC VWT1132 VWV1532	NSP	56 57 58 59 60	Cushion Housing Assy (2P) PCB Angle Flexible Cable (26P) Caution Label	VEC1924 VKP2142 VNE2110 VDA1621 PRW1018
•				NSP	61	Caution Label (F)	VRW-328



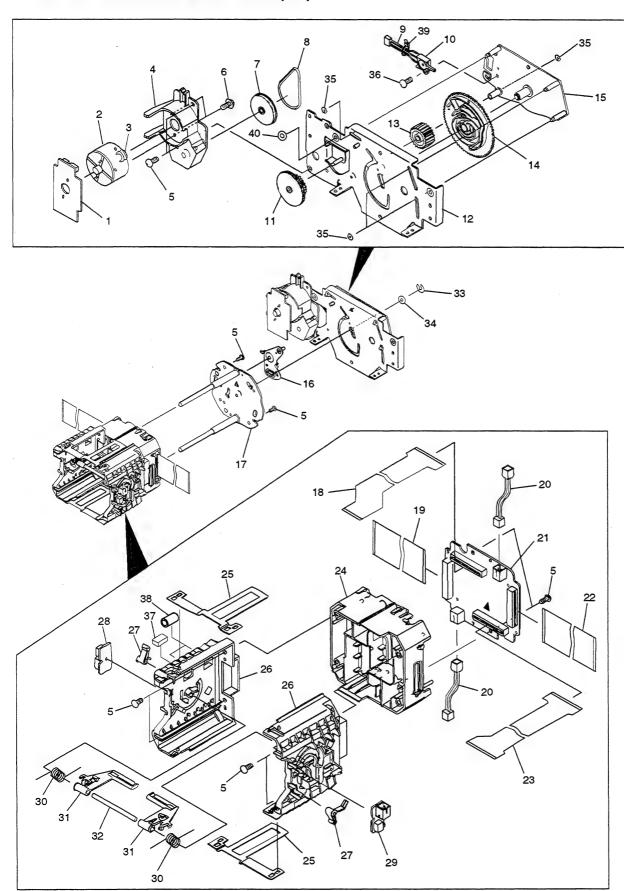
Mark	No. Description Part No.		Mark	No	. Description	Part No.	
	1	Clamp Cam B	VNL1765		16	Flexible Cable (10P)	VDA1579
	2	CDP Spring	VBH1191	NSP	17	LMSB Assy	VWG1554
	3	Screw	Z39-019		18	MB Switch Lever	VNL1664
	4	CD Plate	VNL1685		19	Roller	VNL1042
	5	Rubber Belt	VEB1184		20	Mechanism Base	VNK3239
	6	Gear Pulley	VNL1662		21	Cam Gear	VNL1625
	7	Slider (L)	VNL1665		22	Cam Plate	VNL1631
	8	Twin Gear	VNL1626		23	CAS Spring	VBH1190
	9	Center Gear	VNL1660		24	Shaft Holder	VNE1942
	10	Double Gear	VNL1661		25	CAM Holder	VNE2032
	11	Screw	BMZ26P040FMC		26	Slider (R)	VNL1666
	12	Loading Motor Assy	VXX2045			2.1.2.2 (1.1)	
	13	Carriage Motor	VXM1033				
NSP	14	Motor Pulley	VNL1630				
	15	Synchro Gear Assy	VXA2105				

2.7 SERVO MECHANISM SECTION (1/2)



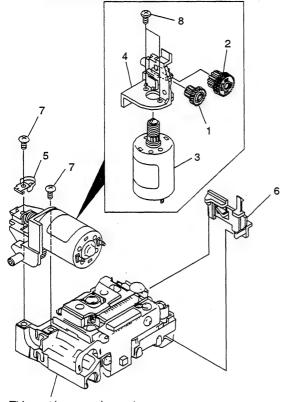
Mark	No.	Description	Part No.	Mark	No	. Description	Part No.	
	1 2 3 4 5	Mini Clamp Screw A Horn Tilt Base (Upper) Housing Assy (2P)	VEC1905 BBZ26P060FMC VNL1689 VNE2062 VKP2136		26 27 28 29 30	Screw Tilt Base (Under) Tilt Rear Spring CA Rack (Lower) Flexible Cable (6P)	PMZ20P060FZK VNL1711 VBH1274 VNL1712 VDA1578	
NSP	6 7 8 9 10	BISB Assy Screw B Cam Support Spring SW Lever B	VWG1796 BPZ20P040FZK VNL1725 VBH1273 VNL1723		31 32 33 34 35	Flexible Cable Cover Motor Base Screw Tilt Spring Thrust Spring	VNL1727 VNE1941 IBZ26P060FMC VBH1263 VBH1245	
	11 12 13 14 15	Shaft Holder CA Shaft (Upper) CA Rack (Upper) Shaft Stay Screw	VNL1724 VLL1486 VNL1722 VNL1726 BBZ30P080FMC	NSP	36 37 38 39 40	CA Switch Lever PKSB Assy Housing Assy (3P) Screw Screw	VNL1644 VWG1555 VKP2045 IBZ26P120FMC PMA30P050FMC	
	16 17 18 19 20	Screw CA Shaft (Lower) TAN Guide FPC Holder A DVD Carriage Assy	PPZ20P060FMC VLL1485 VNE2061 VNL1751 VWT1139	NSP	41 42 43 44 45	Tilt Spring B Housing Assy (3P) FG Assy FG Base Tilt Cam	VBH1287 VKP2046 VWG1556 VNL1781 VNL1643	
	21 22 23 24 25	FPC Holder B CLD Carriage Assy CA Guide TAN Spring (B) TAN Lever (B)	VNL1752 VWT1141 VNL1668 VBH1264 VNL1669	NSP NSP	46 47 48 49 50	Tilt Cam Spring PRC Hub Centering Spring Turn Table Assy Oil Stopper	VBH1243 VNL1684 VBH1269 VXA2285 VBF1002	
				NSP NSP	51 52 53 54 55	Screw Spindle Motor Cover S Rubber Sheet Screw	ZMD30H030FBT VXM1057 VNL1780 VEB1272 BBZ30P050FZK	
					56	Spindle Motor Assy	VXX2521	

2.8 SERVO MECHANISM SECTION (2/2)



Mark	No. Description Part No.		Mark	No	. Description	Part No.	
NSP	1	TNMB Assy	VWG1793	NSP	21	CNNB Assy	VWG1792
	2	Carriage Motor	VXM1033		22	Flexible Cable (27P)	VDA1581
NSP	3	Motor Pulley	VNL1630		23	PU FPC-A	VNP1582
	4	Motor Holder	VNL1717		24	PCB Holder	VNL1716
	5	Screw	BBZ30P080FMC		25	FC Guide	VNE2059
	6	Screw	BMZ26P040FMC		26	PU Holder	VNL1715
	7	Gear Pulley	VNL1662		27	SW Lever C	VNL1714
	8	Rubber Belt	VEB1184	NSP	28	LCSB Assy	VWG1795
	9	Housing Assy (3P)	VKP2137	NSP	29	DCSB Assy	VWG1794
	10	Lever Switch	DSK1003		30	FC Arm Spring	VBH1272
	11	Middle Gear	VNL1720		31	FC Arm	VNL1713
	12	Turn Panel Assy	VXA2337		32	Tilt Shaft	VLL1175
	13	Gear S	VNL1719		33	E Ring	YE30FUC
	14	Turn Cam Gear	VNL1718		34	Washer	WA42D080D050
	15	Swing Plate Assy	VXA2289		35	Washer	WT26D070D050
	16	Turn Lever Assy	VXA2292		36	Screw	PMA26P060FMC
	17	Turn Plate Assy	VXA2290		37	Cushion	VEC1917
	18	PU FPC-B	VNP1583		38	Tube	VEB1273
	19	Flexible Cable (26P)	VDA1580		39	Binder	Z09-056
	20	Connector Assy	PG02KK-E10		40	Washer	VEC1951

2.9 DVD CARRIAGE ASSY

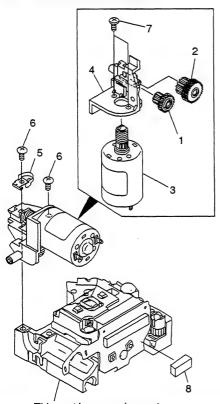


This part is no service part.

Parts List

Mark	No	. Description	Part No.
	1	CA Gear (A)	VNL1782
	2	CA Gear B Assy	VXX2471
	3	Slider Motor Assy	VXX2472
	4	Motor Holder	VNL1779
	5	Thrust Holder	VBK1058
	6	CA Guide B	VNL1721
	7	Screw	BBZ20P050FZK
	8	Screw	PMZ20P030FMC

2.10 CLD CARRIAGE ASSY

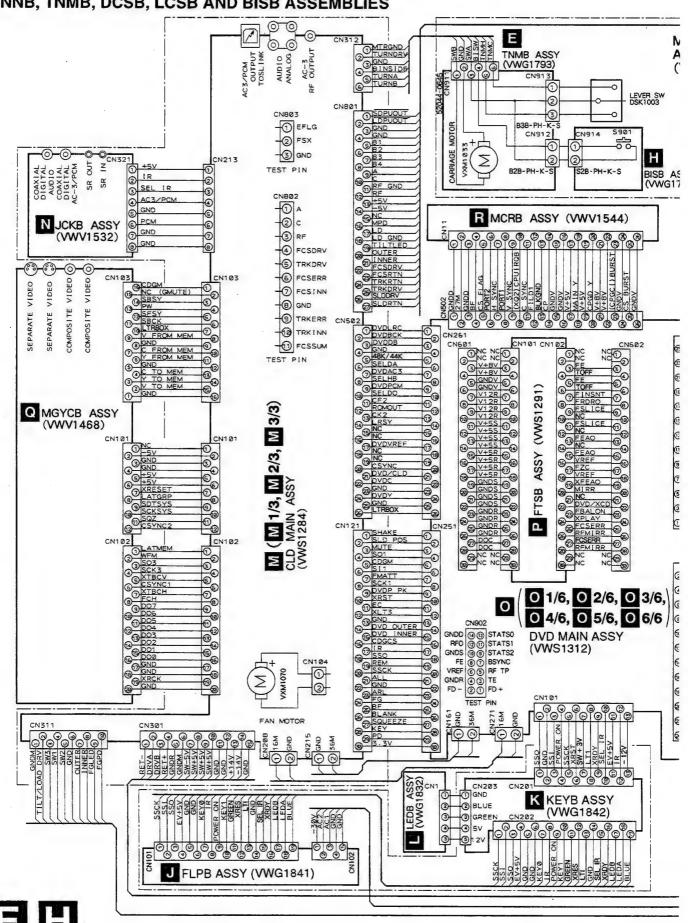


This part is no service part.

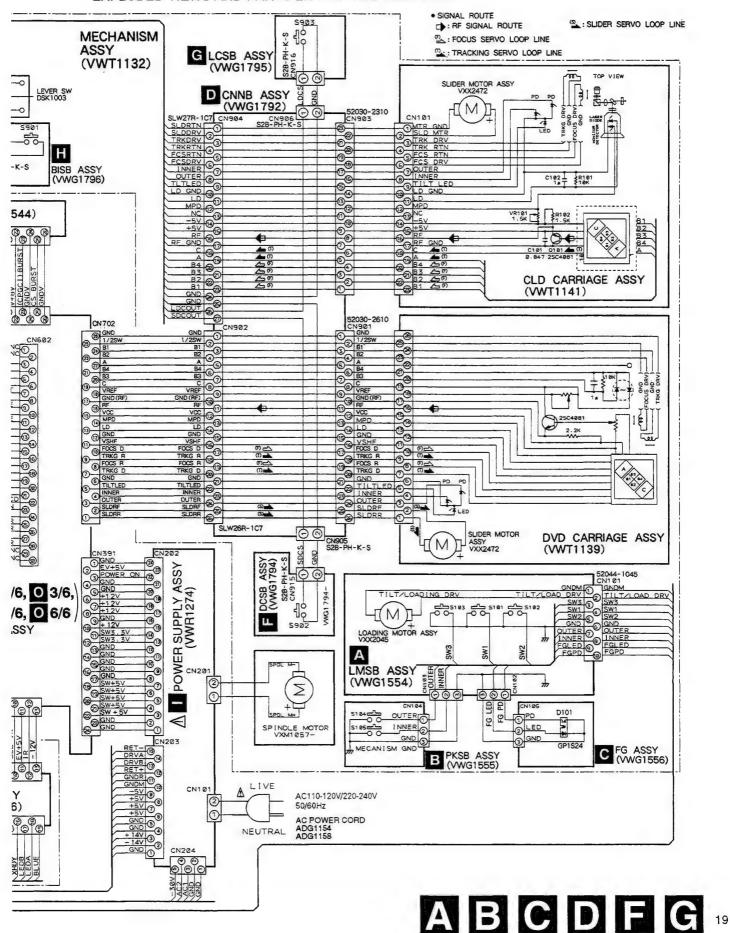
Mark	No	. Description	Part No.
	1	CA Gear (A)	VNL1782
	2	CA Gear (B)	VNL1639
	3	Slider Motor Assy	VXX2472
	4	Motor Holder	VNL1779
	5	Thrust Holder	VBK1058
	6	Screw	PBZ20P050FMC
	7	Screw	PMZ20P030FMC
	8	Cushion B	VEC1945

3. SCHEMATIC DIAGRAM

3.1 OVERALL WIRING DIAGRAM, LMSB, PKSB, FG, CNNB, TNMB, DCSB, LCSB AND BISB ASSEMBLIES



Note: When ordering service parts, be sure to refer to "EXPLODED VIEWS AND PARTS LIST" or "PCB PARTS LIST"

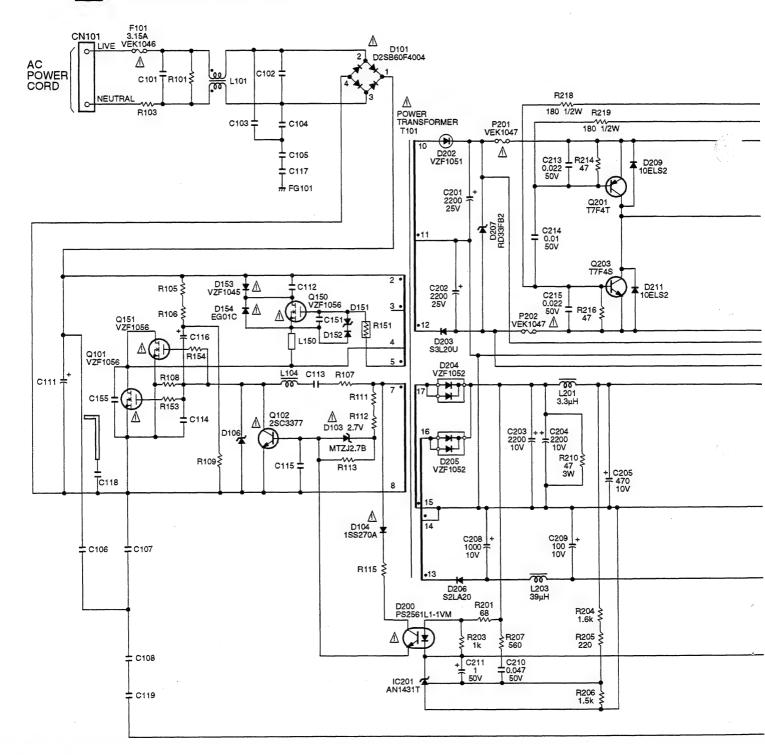


3.2 POWER SUPPLY ASSY

• NOTE FOR FUSE REPLACEMENT

CAUTION -FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.
REPLACE ONLY WITH SAME TYPE AND RATINGS ONLY.

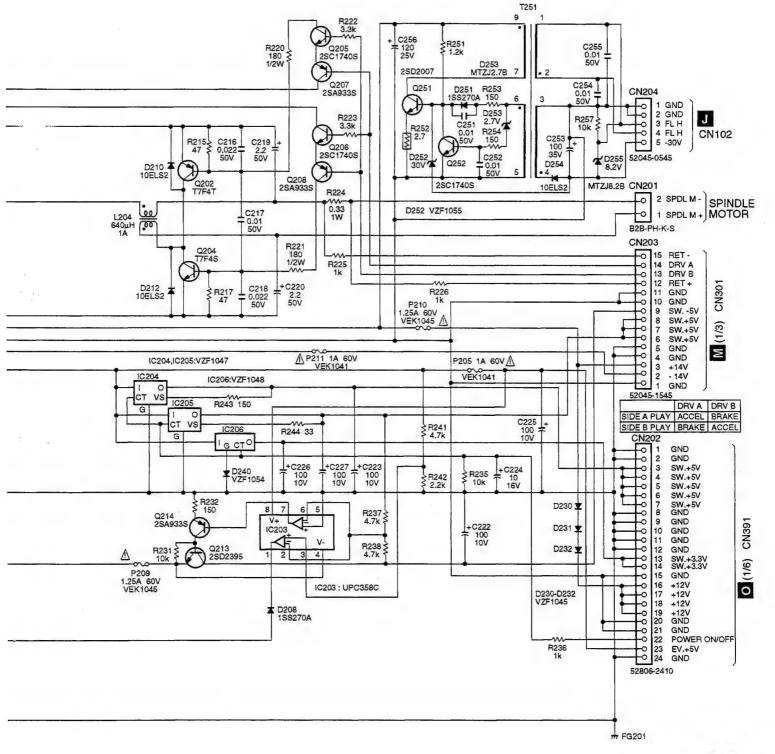
POWER SUPPLY ASSY (VWR1274)



« NOTE OF SPARE PARTS IN POWER SUPPLY (SYPS) ASSY »

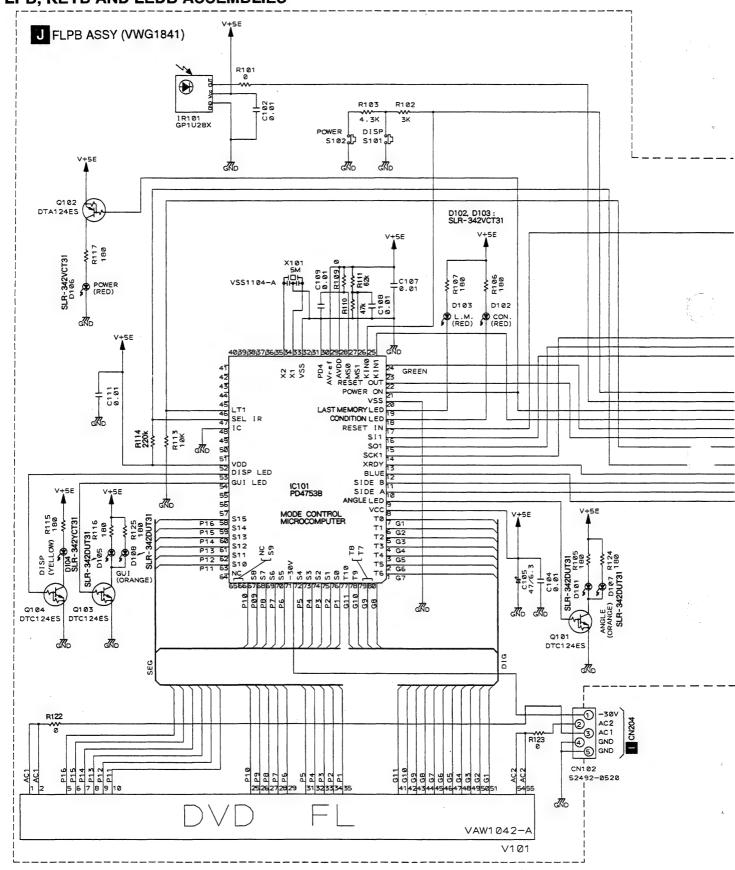
- In case of repairing, use the described parts only to prevent an accident.
- Please write the red ✓ mark on the board when the primary section of POWER SUPPLY (SYPS) Assy is repaired.
- · Please take care to keep the space, not touching other parts when replacing the parts.

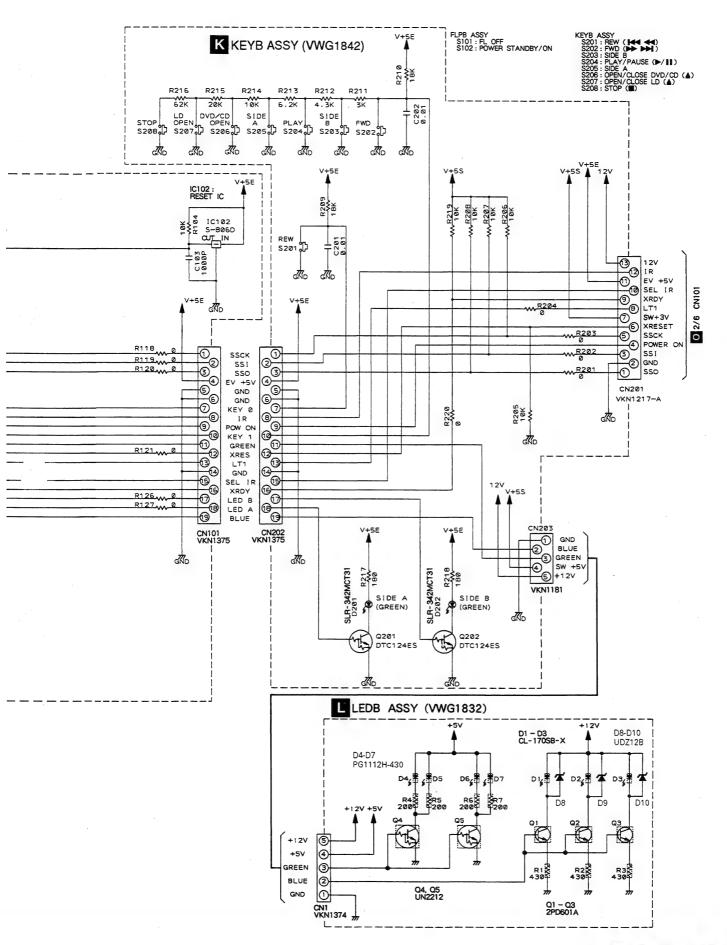
CAUTION -FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.
REPLACE ONLY WITH SAME TYPE NO. 491001 MFD.
BY LITTELFUSE INC. FOR P205 AND P211, 4911.25 MFD.
BY LITTELFUSE INC. FOR P209 AND P210.



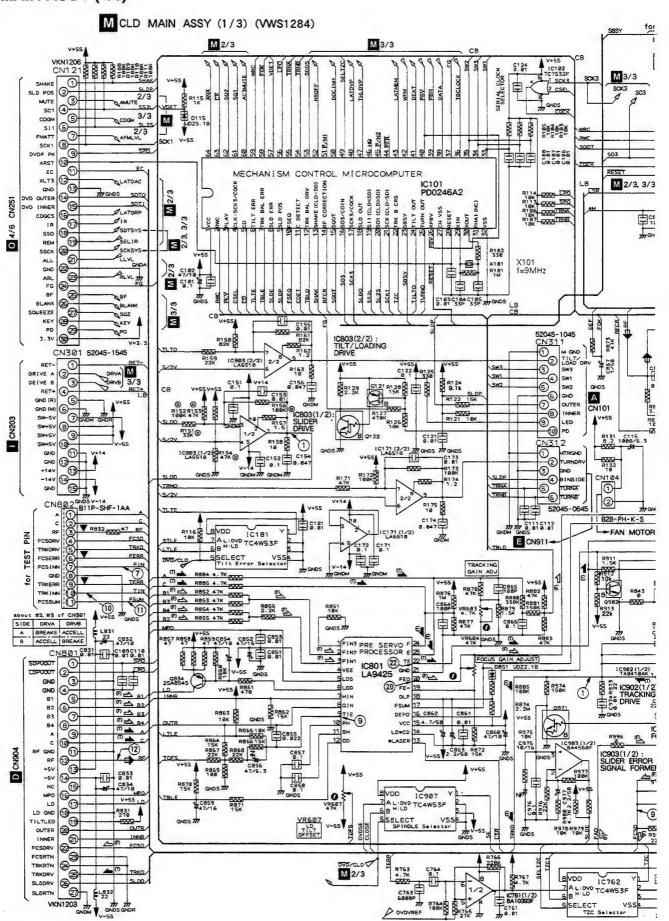
DVL-9

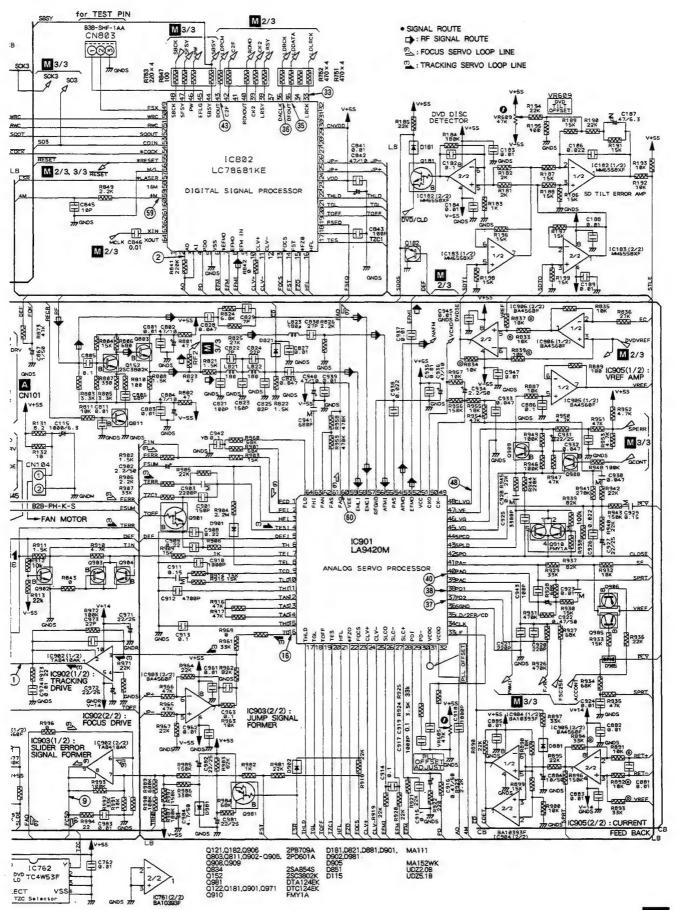
3.3 FLPB, KEYB AND LEDB ASSEMBLIES



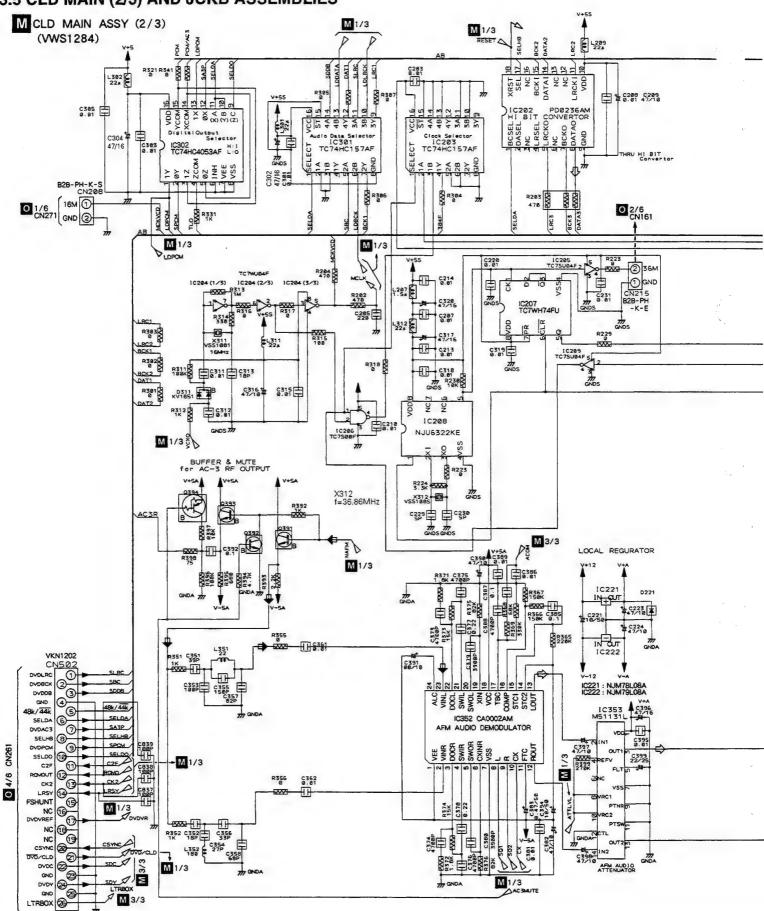


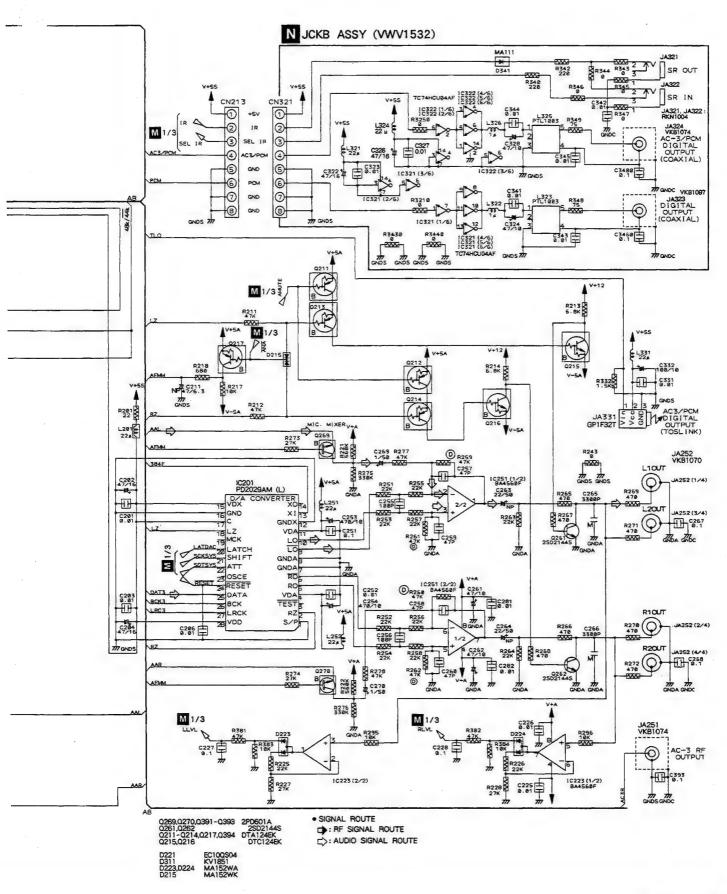
3.4 CLD MAIN ASSY (1/3)



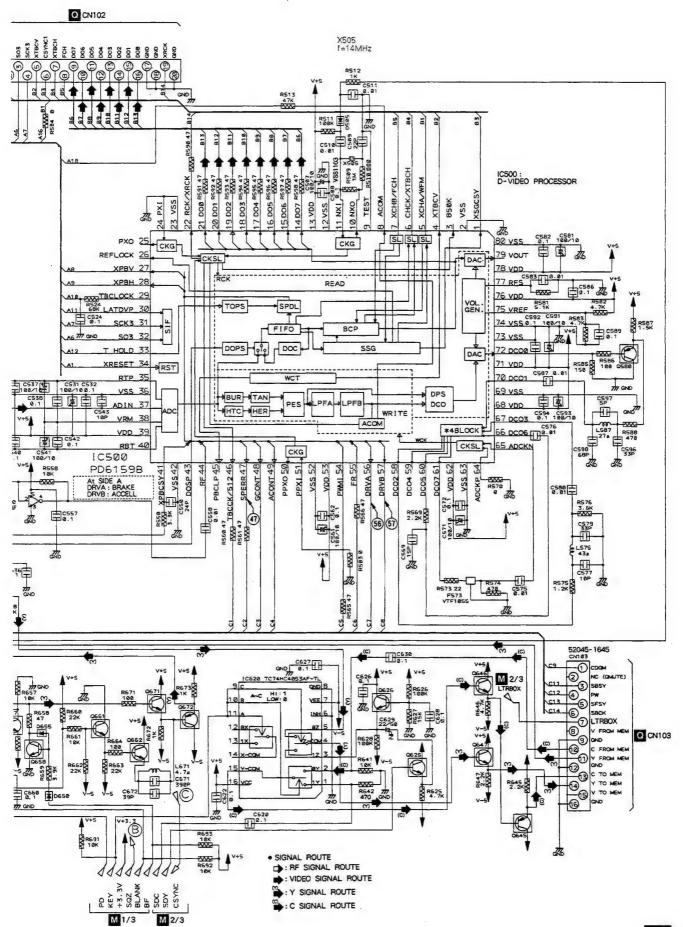


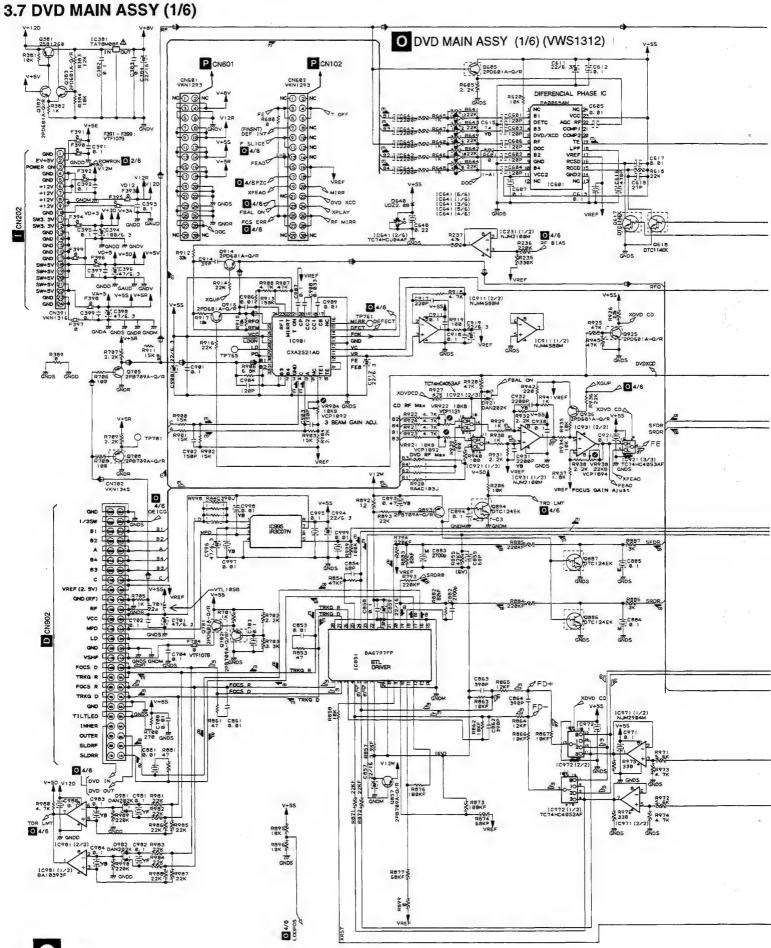
3.5 CLD MAIN (2/3) AND JCKB ASSEMBLIES

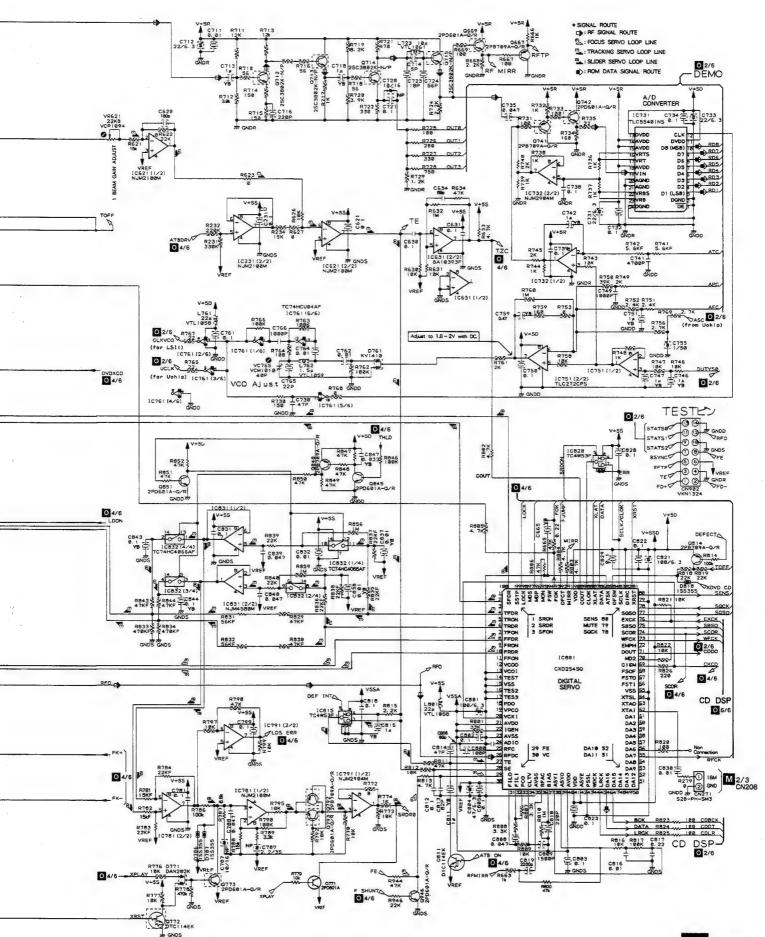




3.6 CLD MAIN ASSY (3/3) Q CN101 O CV M CLD MAIN ASSY (3/3) (VWS1284) SCKSYS LATMEM SO3 SCK3 XPBV XPBH TBC LOC 2 2 2 2 M 1/3 4 4 4 BC DTA124EK DTC124EK D505 KV1851 D650,D655 MA111 M 2/3 ACOM IC400 A7134M C477 2.15 C439 -,25) NO. ADOS FDOS DELA IC400 : VIDEO IC DATA 東 SPERR M 1/3 PWM! DRVA DRVB IC650 : TC7W00F PW SFSY







DVL-9 3.8 DVD MAIN ASSY (2/6) DATA 03/6, 6/6 50 ភ**ុខសុខសុខសុខ** ខ្លួន O DVD MAIN ASSY (2/6) (VWS1312) 9298 ROM12V 0 4/6 MAIN BUS 字 C.193 0 3/8 0 4/6 0 5/6 0 6/6 Q185 2000000000 T-0. ADDRESS 0 3/6 A0 - A7 0 6/6 TXD RXD DTR CTS +5V GND NC AQ. A20. A21 IC104 PDK022A VSS VCC LH534600BN-7 XCE VSS XOE GUI 4M ROM MAIN BUS 0 3/6 SYSTEM UCOM IC101 HD6417032F20 XIROLIS 41 A1b 42 A17 C185 | 43 VCC 6. 1 | 44 A18 180 | 45 A20(for Video CD) 180 | 47 A21(for Video CD) 2 | 180 | 47 A21(for Video CD) 2 | 180 | 47 A21(for Video CD) 2 | 180 | 47 A21(for Video CD) 3 | 180 | 45 A20(for Video CD) 4 | 180 | 47 A21(for Video CD) 5 | 180 | 47 A21(for Video CD) 5 | 180 | 47 A21(for Video CD) 5 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 1 SH-1 2- 1 8131 | 5- 7 16K | 5- 7 16K | SHORT for TEST MODE ENTRY

0

8122W

0.1

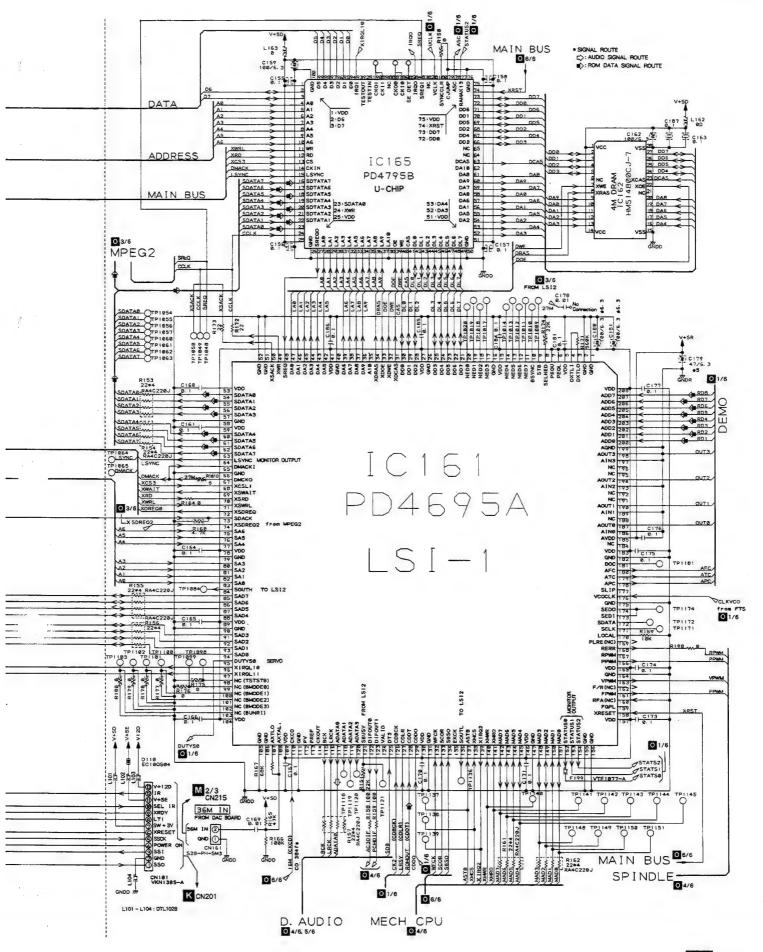
V+SD

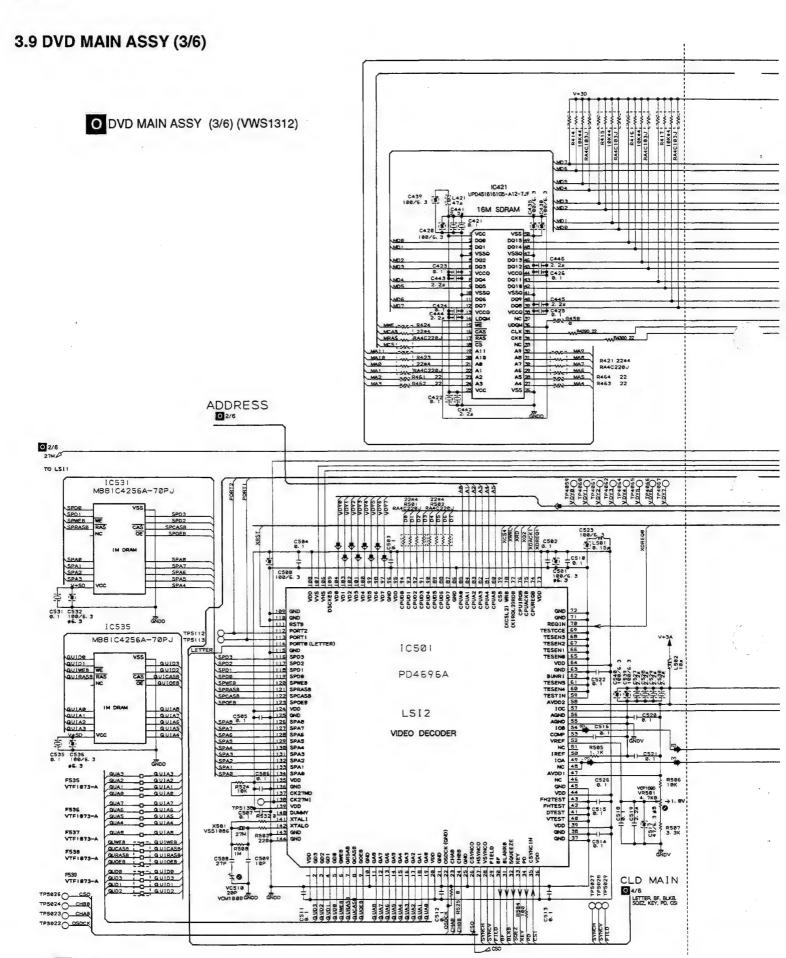
POWR ON

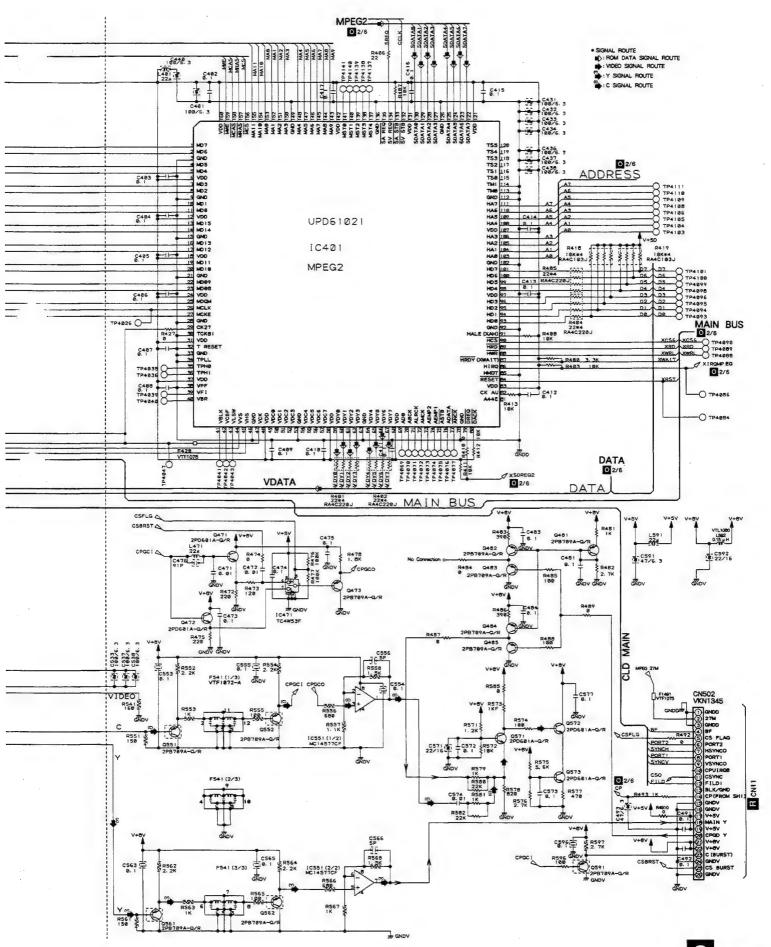
F147, F181 - F188: VTF1080

RISE FIGK

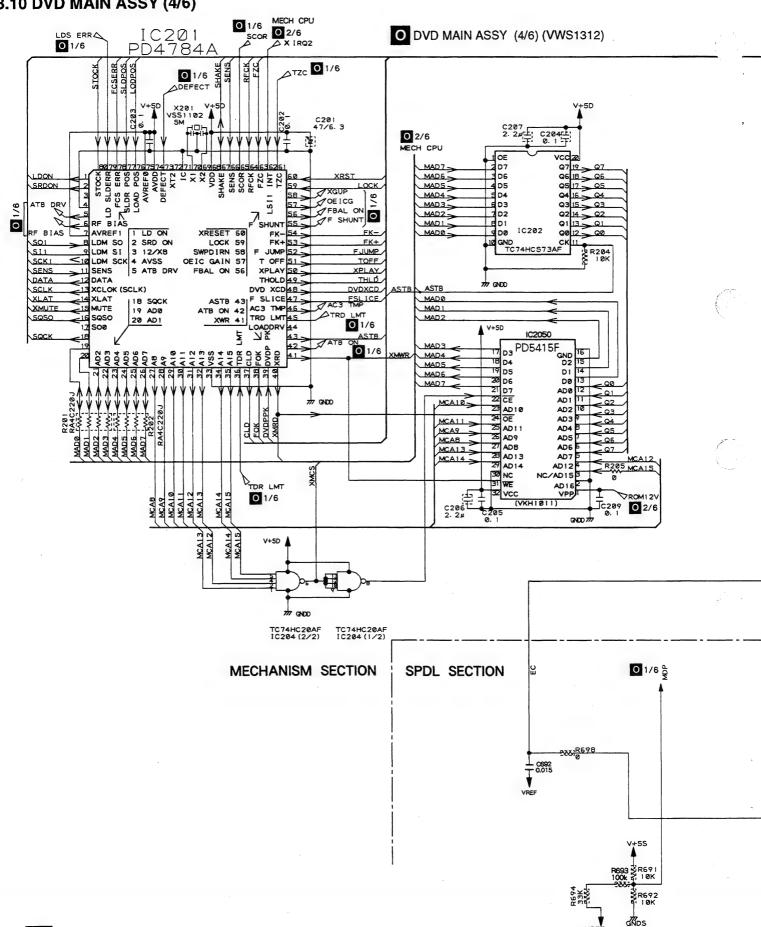
DTC114TK

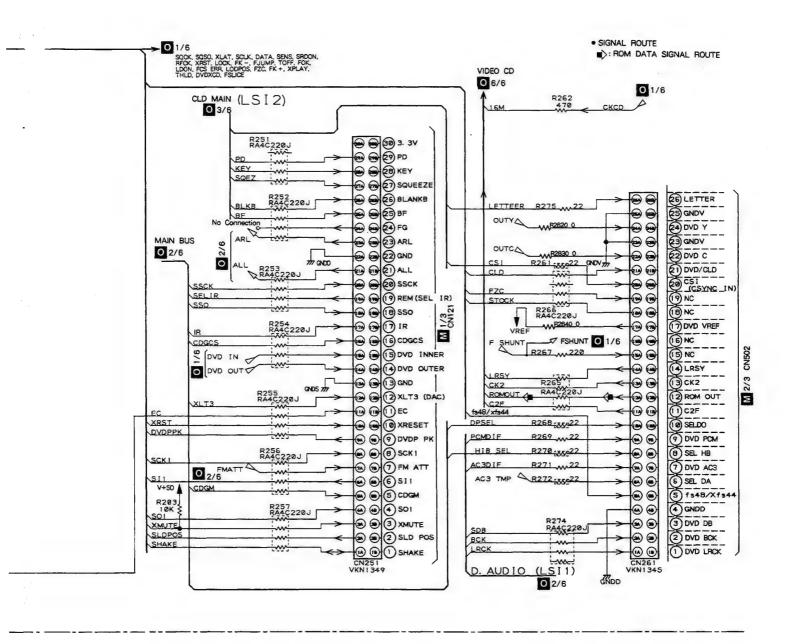


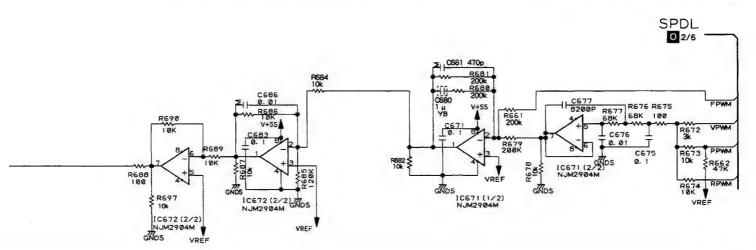




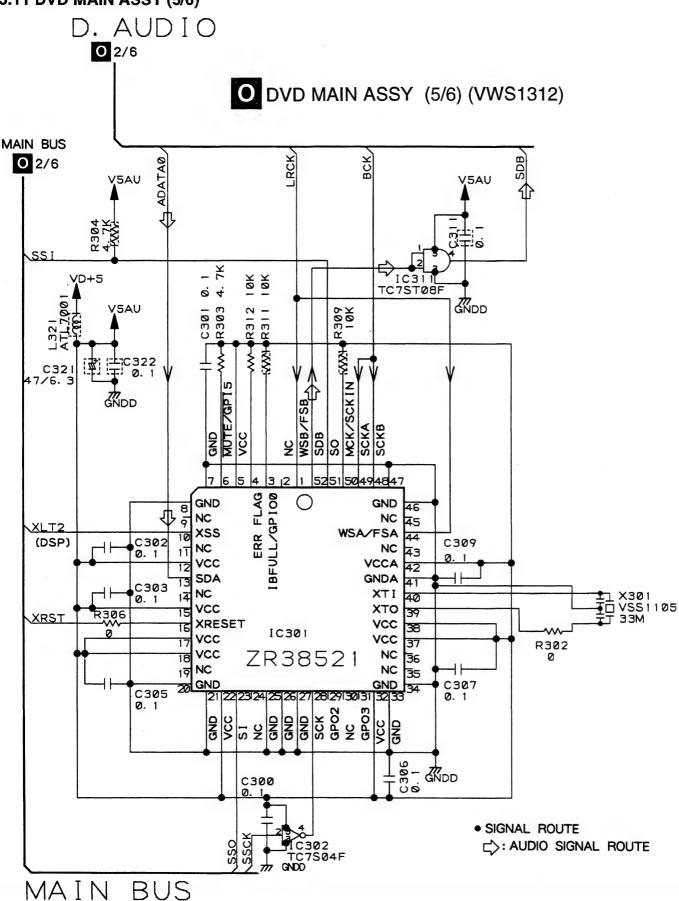
3.10 DVD MAIN ASSY (4/6)



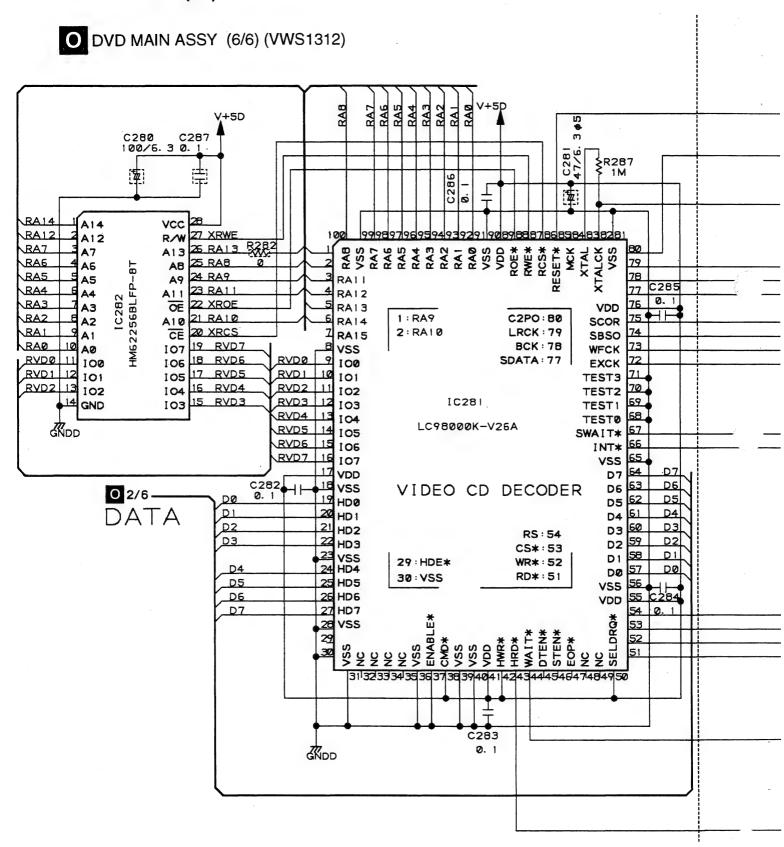


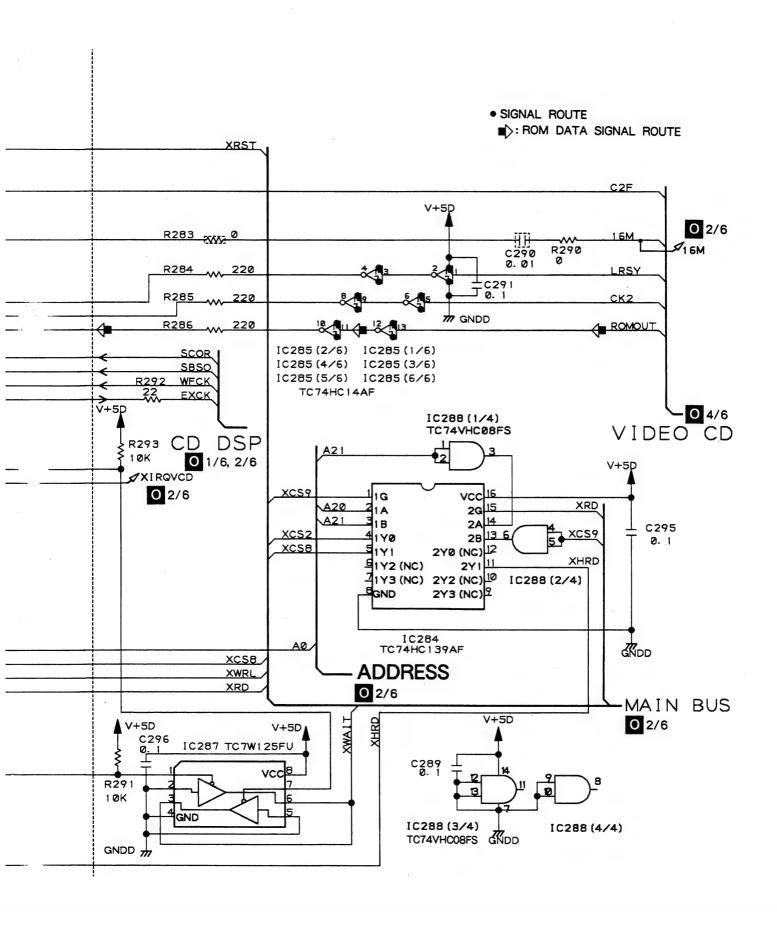


3.11 DVD MAIN ASSY (5/6)

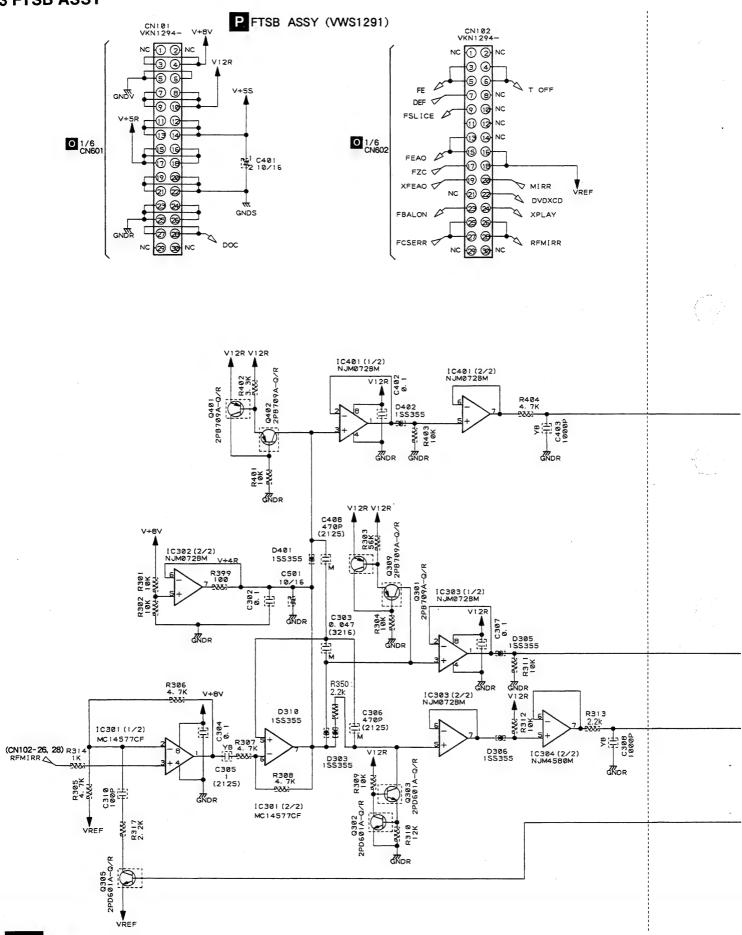


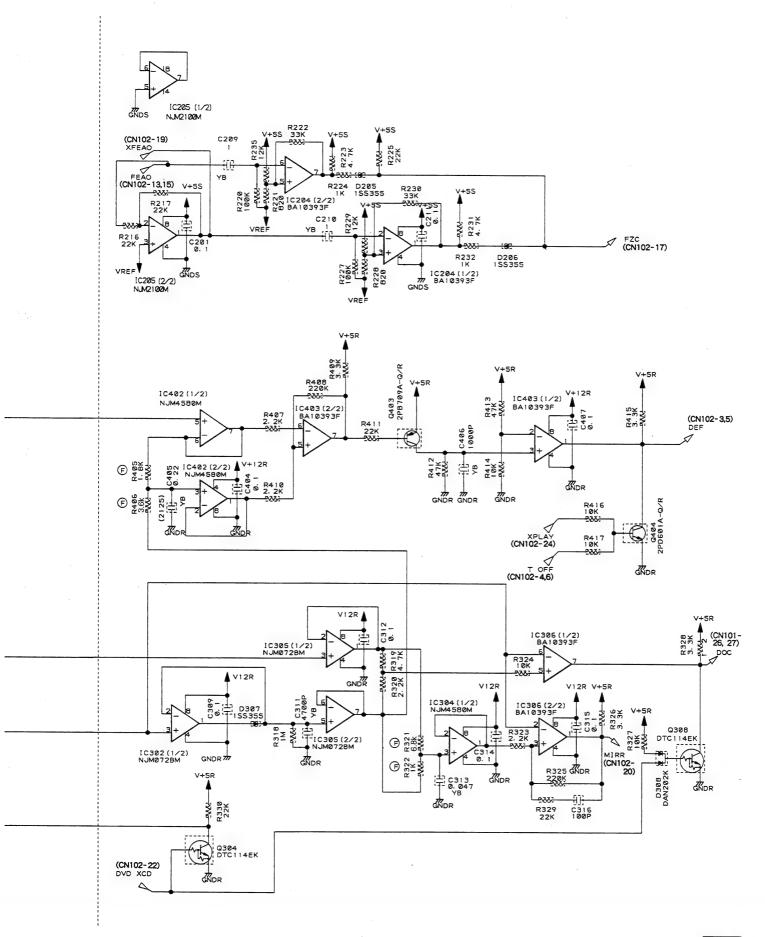
3.12 DVD MAIN ASSY (6/6)



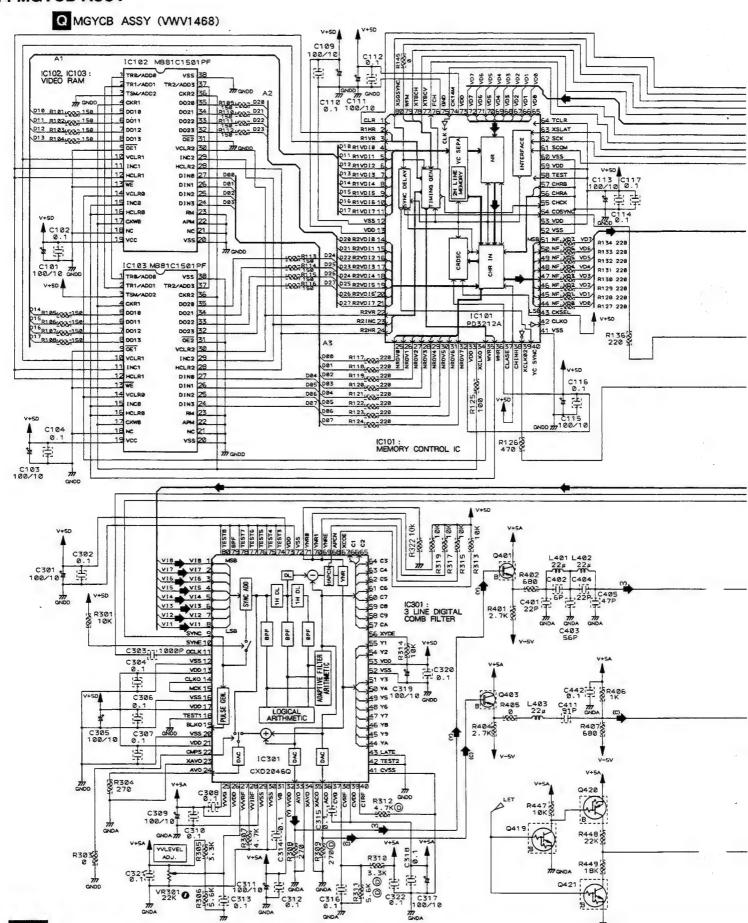


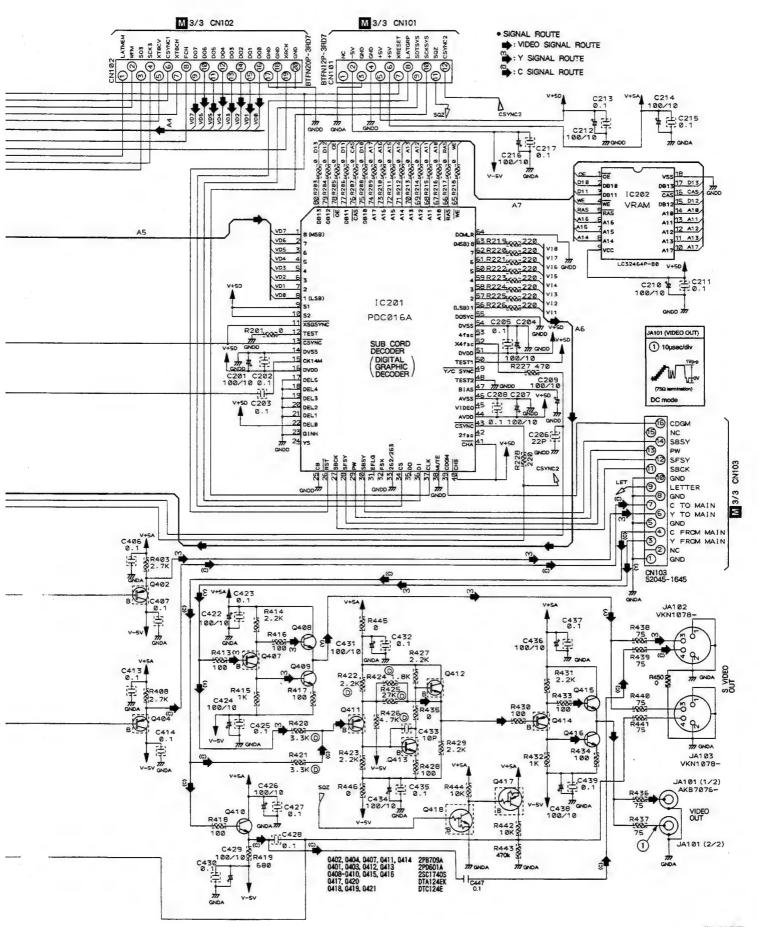
3.13 FTSB ASSY



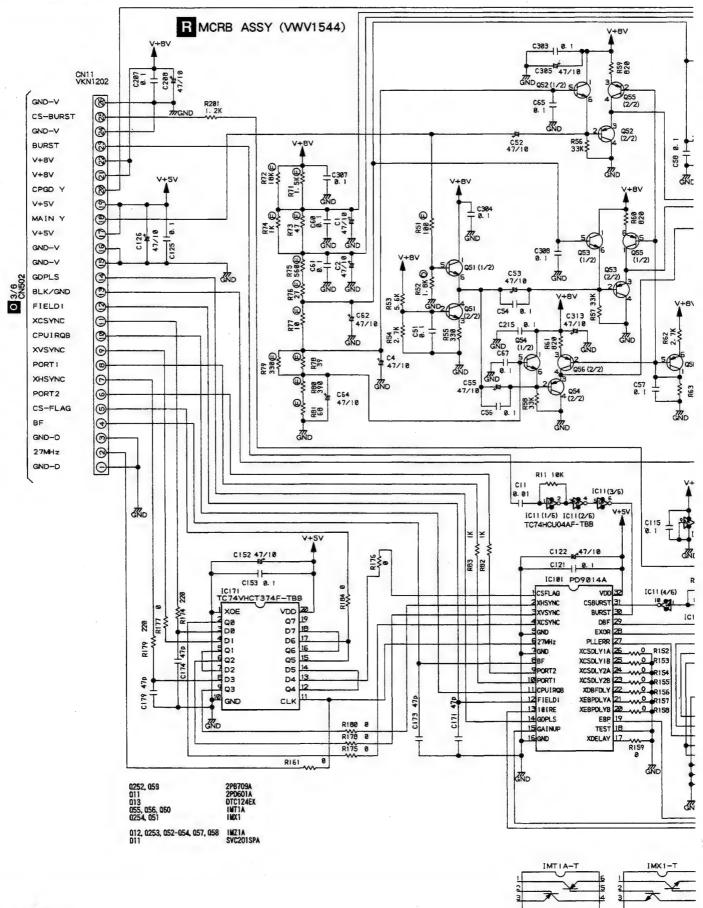


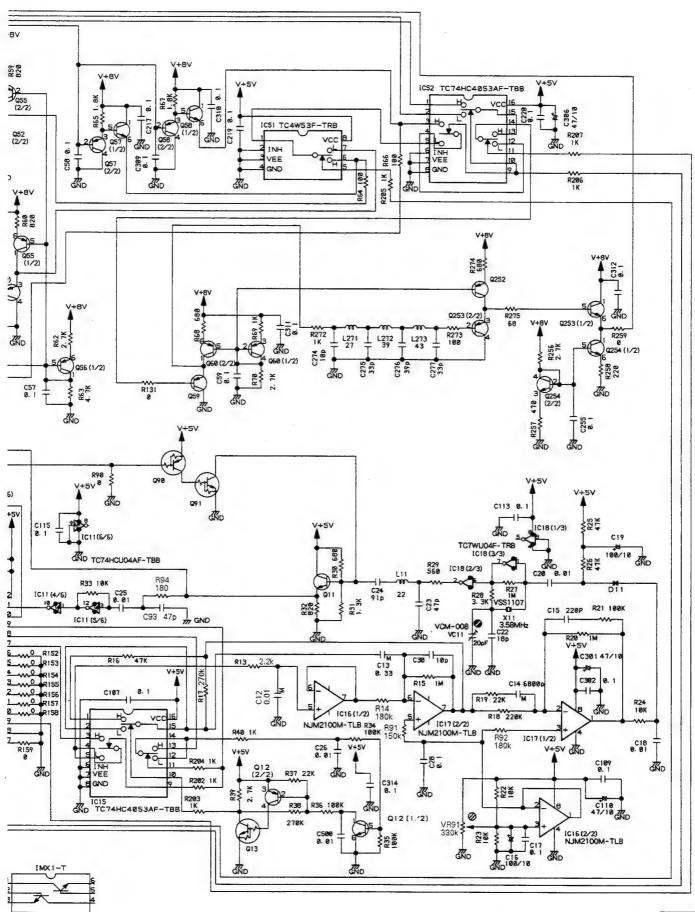
3.14 MGYCB ASSY





3.15 MCRB ASSY



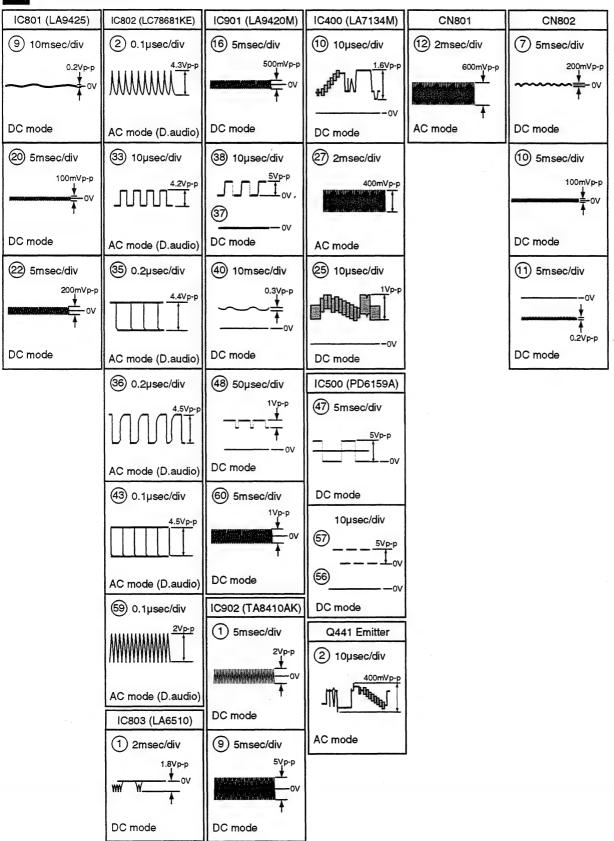


WAVEFORMS AND VOLTAGE

Note: (No) in the table correspond to the pin number.

Measurement condition: In case when (D.audio) is written, at time when disc that has digital audio recording is played.

M CLD MAIN ASSY



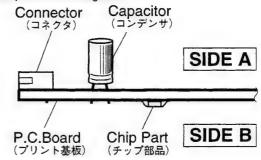
4. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS:

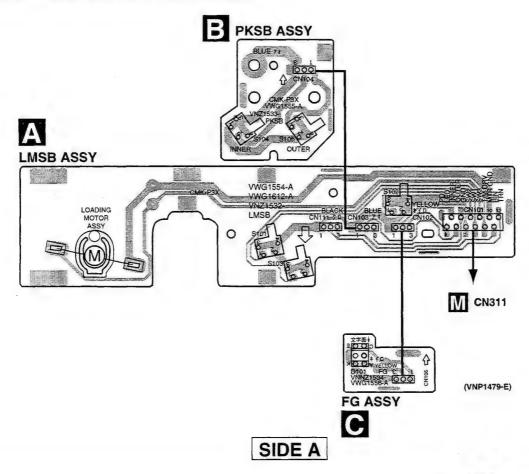
- 1. Part numbers in PCB diagrams match those in the schematic diagrams.
- 2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
000 BCE		Transistor
● ○ ○ ○ B C E		Transistor with resistor
000 DGS		Field effect transistor
<u> </u>	**************************************	Resistor array
000		3-terminal regulator

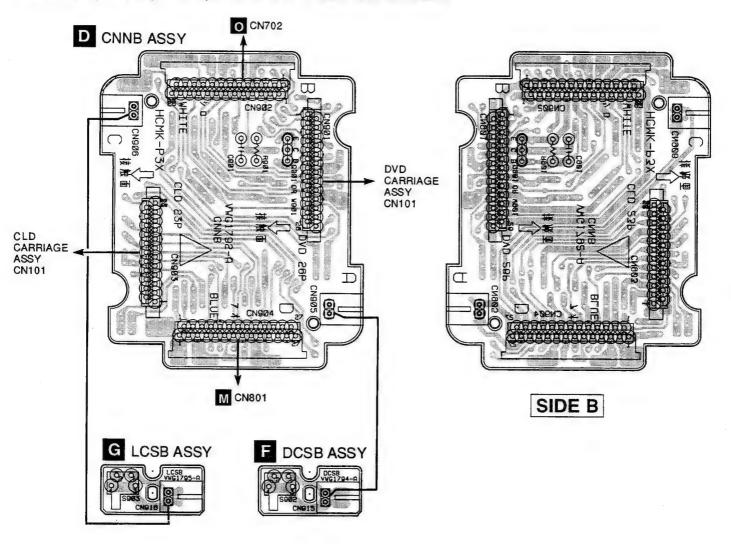
- 3. The parts mounted on this PCB include all necessary parts for several destinations.
- For further information for respective destinations, be sure to check with the schematic diagram.
- 4. View point of PCB diagrams.

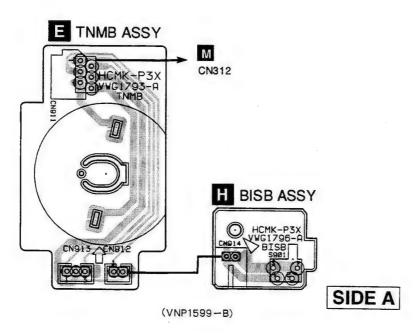


4.1 LMSB, PKSB AND FG ASSEMBLIES

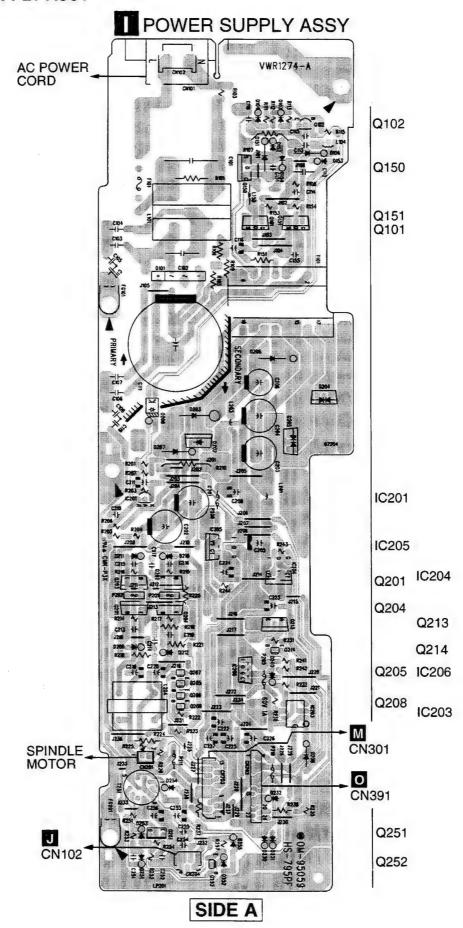


4.2 CNNB, TNMB, DCSB, LCSB AND BISB ASSEMBLIES



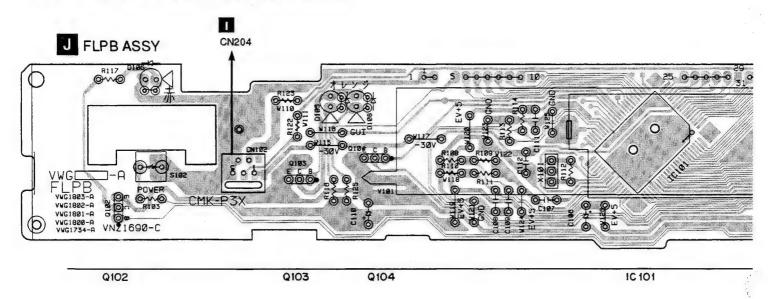


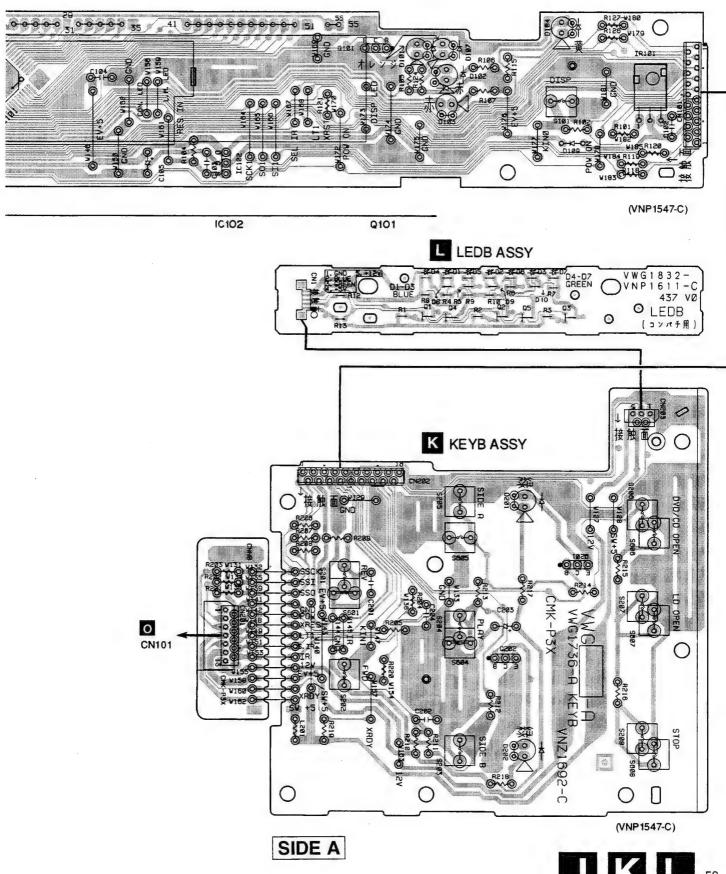
4.3 POWER SUPPLY ASSY



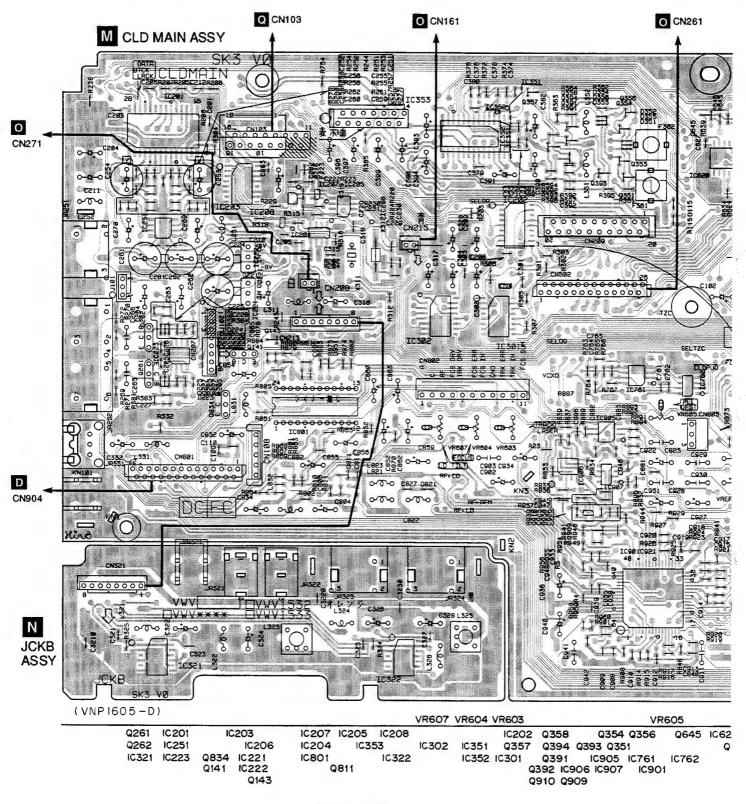
DVL-9

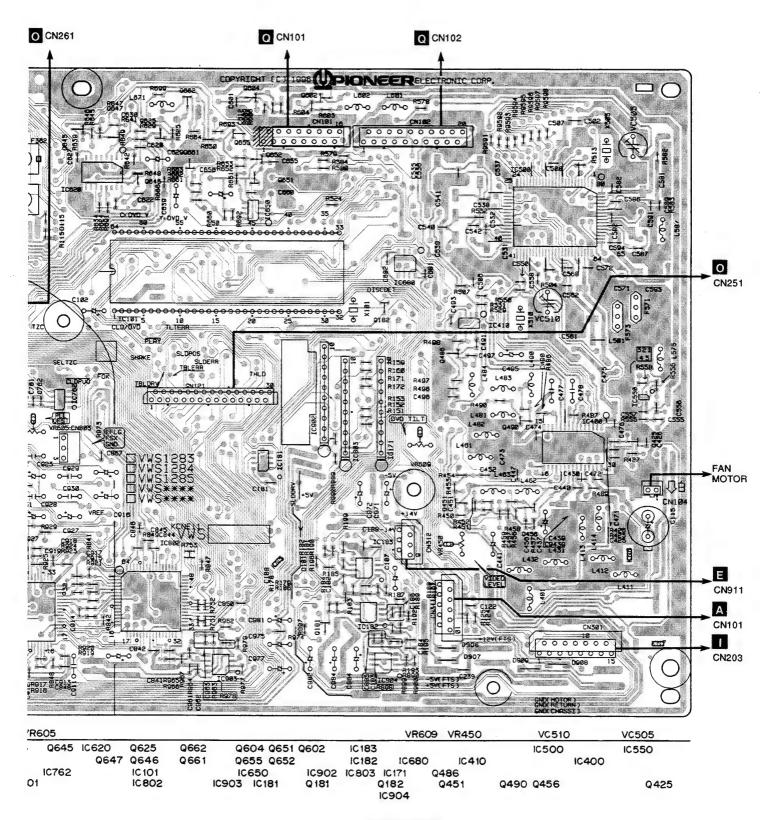
4.4 FLPB, KEYB AND LEDB ASSEMBLIES



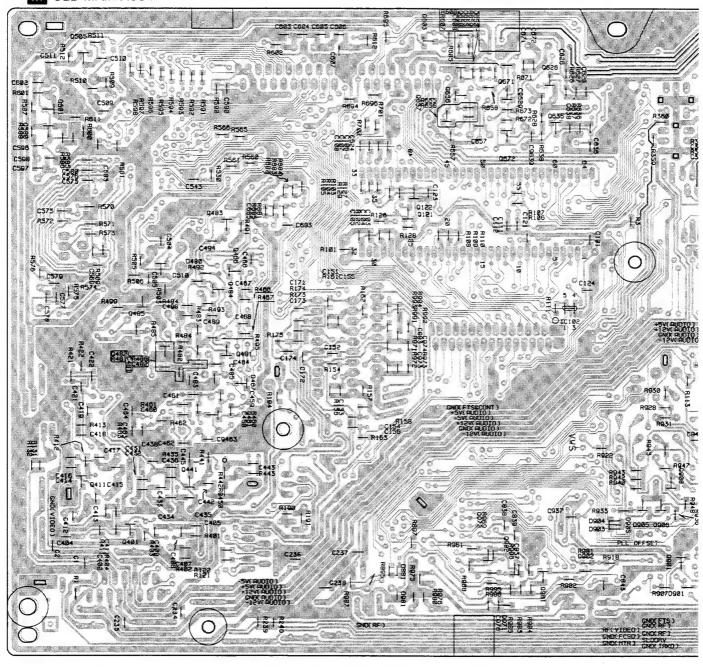


4.5 CLD MAIN AND JCKB ASSEMBLIES





M CLD MAIN ASSY

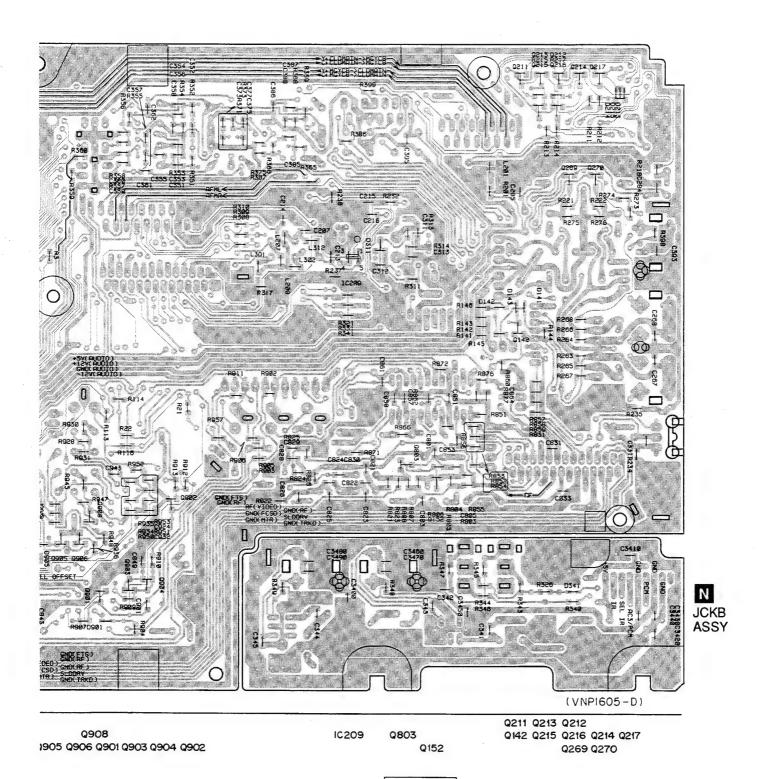


Q580 Q601

Q482 Q485 Q411 Q401 Q461 Q441 Q483 Q466 Q467 Q484 Q481 Q603 Q656 Q671 Q626 IC102 Q657 Q658 Q982 Q672 Q636 Q121 Q122 Q972 Q971 Q981

Q908 Q905 Q906 Q90

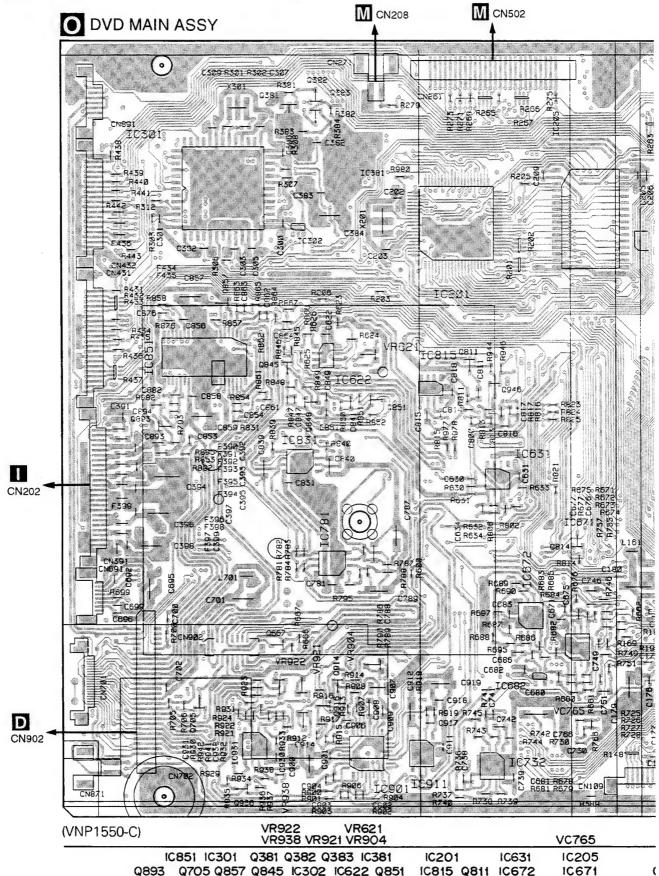
SIDE B



SIDE B

4.6 DVD MAIN ASSY

This PCB is a four-layered board.
 Middle layer is mainly connected to Vcc and GND.



Q893 Q705 Q857 Q845 IC302 IC622 Q851 Q936 IC831 Q848 IC781

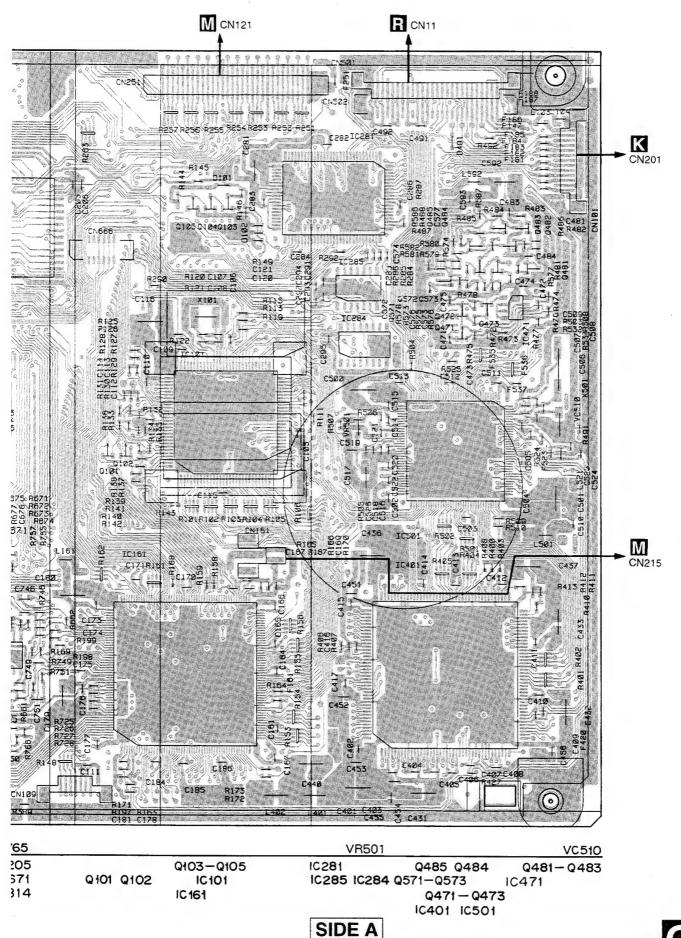
IC815 Q811 IC672 IC682

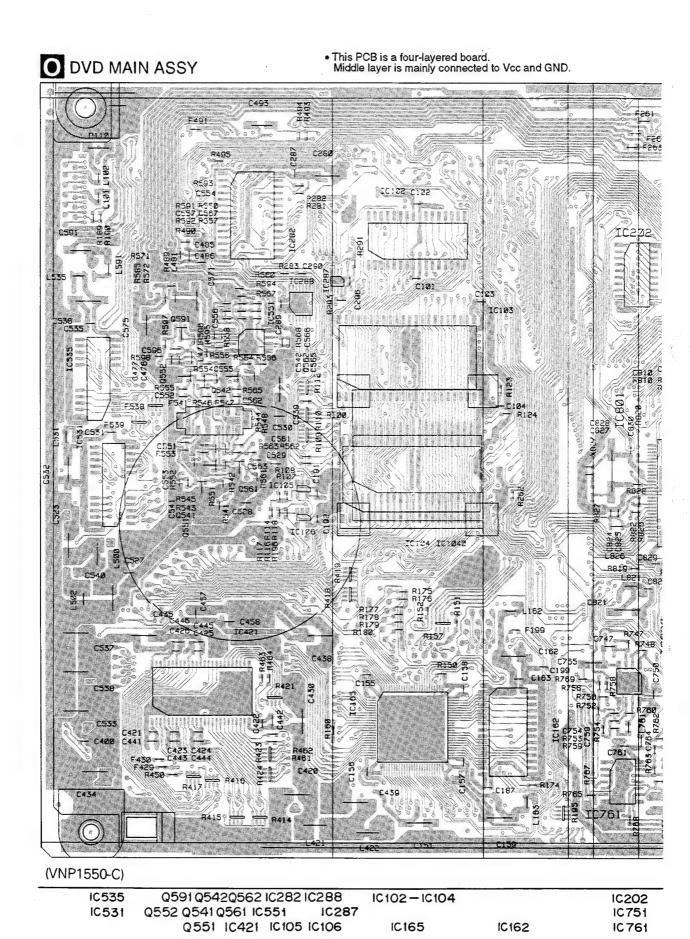
IC911

IC671 Q814 Q946 IC732

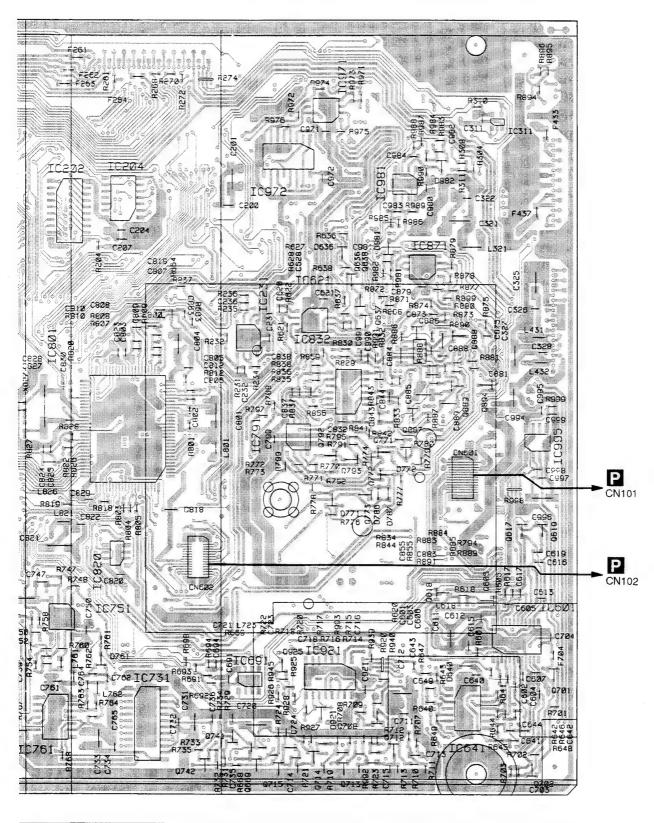


IC931 Q667 Q916 Q914 IC901



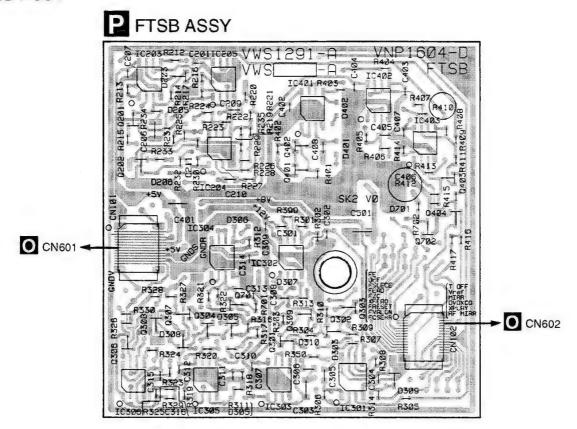


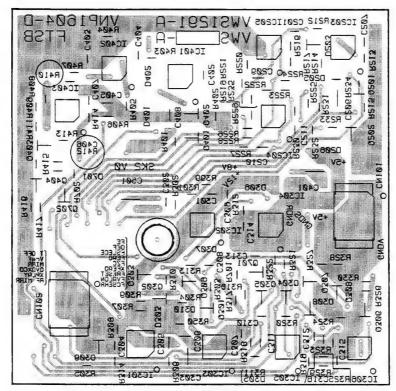




IC202 IC204 IC231 IC972 IC621 IC971 IC981 IC871 IC311 IC995 IC751 10801 IC791 IC832 Q636-Q638 Q886-Q889 Q617 Q619 IC 761 IC820 IC731 Q741 IC691 Q925 Q792 Q793 Q771-Q773 Q894 Q701 Q742 IC921 Q708 Q618 Q605 IC601 Q669 Q715 Q714 Q713 Q712 IC641 Q702

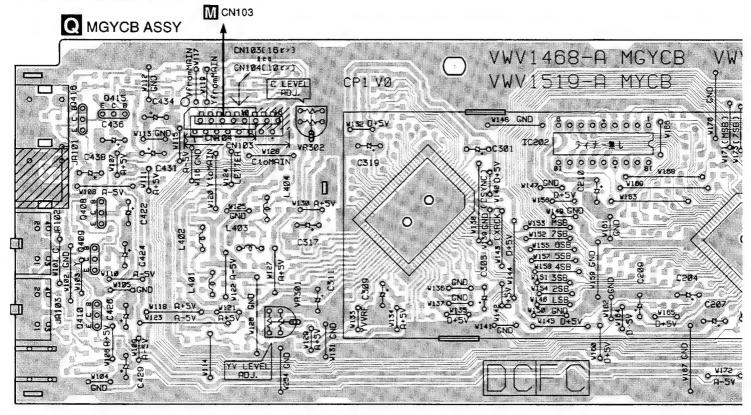
4.7 FTSB ASSY





DVL-9

4.8 MGYCB ASSY



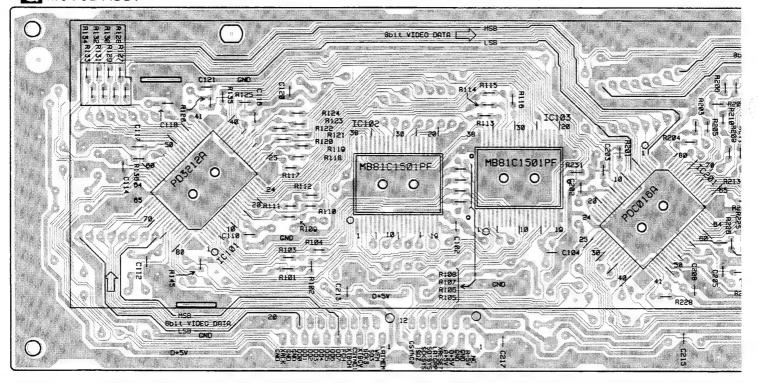
VR301 VR302

Q416 Q415 Q408-Q410

SIDE A

IC202

Q MGYCB ASSY



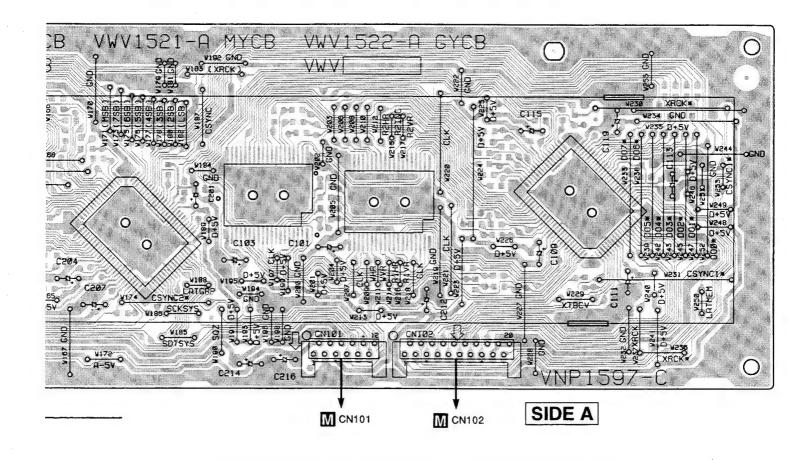
IC101

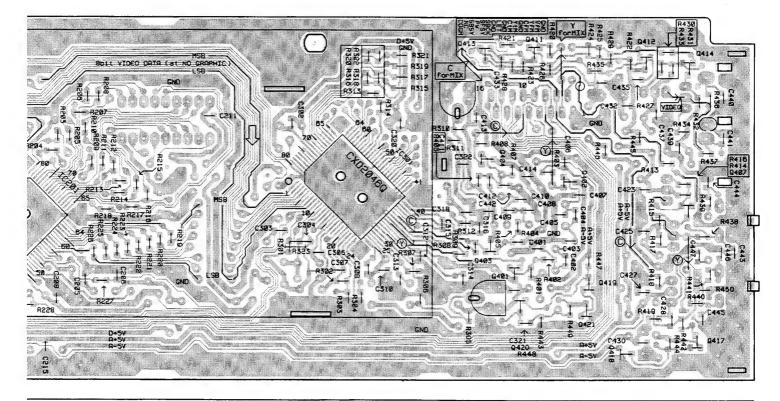
10102

IC103

IC201







10301

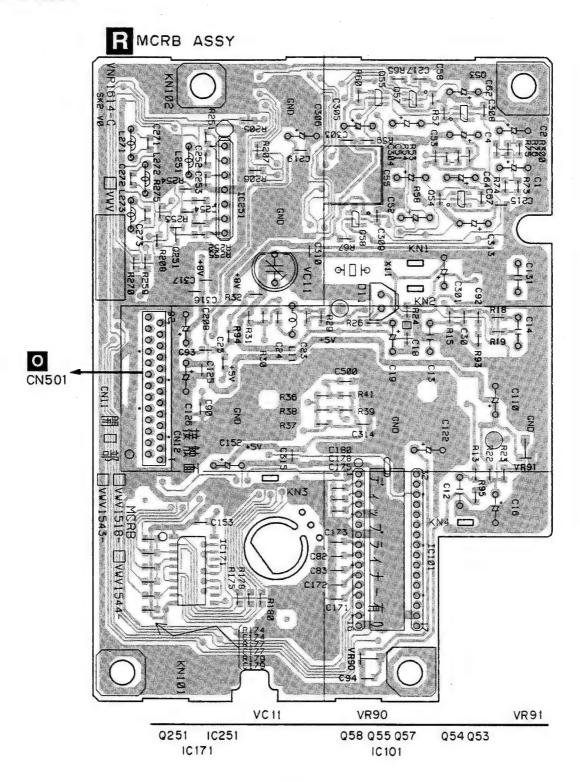
SIDE B

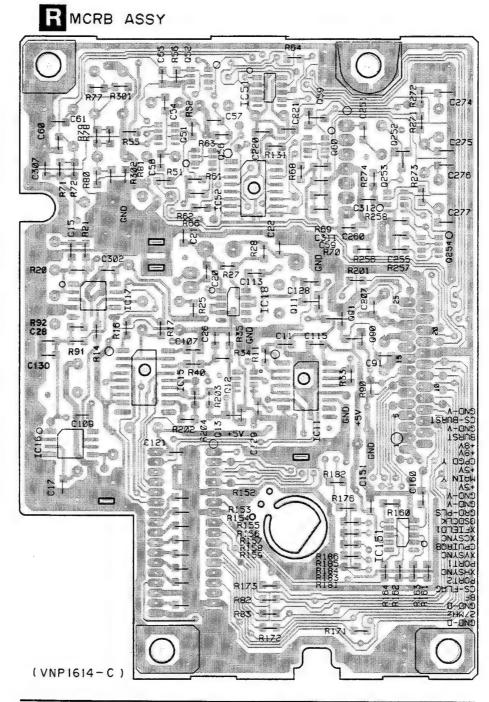
Q413 Q404 Q411 Q402 Q412 Q403 Q401 Q420 Q421 Q419 Q418

Q414 Q407 Q417



4.9 MCRB ASSY





Q51 Q52 Q56 | IC51 | Q59 Q60 | Q252 - Q254 | IC16 | IC17 | IC15 | IC18 | IC52 | Q11 | Q91 Q90 | Q13 Q12 | IC11 | IC151

SIDE B

5. PCB PARTS LIST

NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

• The \(\text{\Lambda}\) mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

• When ordering resistors, first convert resistance values into code form as shown in the following examples. Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω $47k \Omega$ 0.5Ω $I \Omega$ Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

RN1/4PC [5] [6] [2] [1] F

 $5.62k \Omega \rightarrow 562 \times 10^{1} \rightarrow 5621 \dots$

•••••	1411771	<u> </u>

Mark	No. Description	Part No.	Mark No. Description	Part No.
LIST	FOF ASSEMBLIES		B PKSB ASSY	
NSP	MACB ASSY	VWM1507		
NSP	- LMSB ASSY	VWG1554	SWITCHES	
NSP	- PKSB ASSY	VWG1555	\$104,\$105	DSG1017
NSP	FG ASSY	VWG1556	,,	
NSP	MECHB ASSY	VWM1721		
NSP	- CNNB ASSY	VWG1792	C FG ASSY	
NSP	- TNMB ASSY	VWG1793	G PG ASST	
NSP	- DCSB ASSY	VWG1794	SEMICONDUCTOR	
NSP	LCSB ASSY	VWG1795	D101	GP1S24
NSP	L BISB ASSY	VWG1796	DIOI	GP1524
Δ	POWER SUPPLY ASSY	VWR1274		
NSP	FLKB ASSY	VWM1760	MECHB ASSY	
	- FLPB ASSY	VWG1841		
	└ KEYB ASSY	VWG1842	OTHERS	
			PC BOARD MECHB	VNP1599
	LEDB ASSY	VWG1832		
NSP	CLD MAIN ASSY	VWM1744		
	- CLD MAIN ASSY	VWS1284		
	L JCKB ASSY	VWV1532	D CNNB ASSY	
	DVD MAIN ASSY	VWS1312	OTHERS	
	FTSB ASSY	VWS1291	CN903 23P FFC CONNECTOR	52030-2310
	MGYCB ASSY	VWV1468	CN901 26P FFC CONNECTOR	52030-2610
	MCRB ASSY	VWV1544	CN905, CN906 KR CONNECTOR 2P	S2B-PH-K-S
			CN902 26P FFC CONNECTOR	SLW26R-1C7
			CN904 27P FFC CONNECTOR	SLW27R-1C7
MAG	CB ASSY			
отн	FRS		TNMB ASSY	
U 111		VMD1.470	TNMB ASSY	
	PC BOARD MACB	VNP1479	OTHERS	
			CN911 6P FFC CONNECTOR	52044-0645
	LMSB ASSY		CN912 KR CONNECTOR 2P	B2B-PH-K-S
A	LIVISD ASST		CN913 KR CONNECTOR 3P	B3B-PH-K-S
SWIT	TCHES			
- 111	\$101-\$103	DSG1017		
OTU		D00101/		
отн			DCSB ASSY	
	CN101 10P FFC CONNECTOR	52044-1045		
			SWITCH	
			\$902	DSG1017
			OTHERS	
			CN915 KR CONNECTOR 2P	S2B-PH-K-S
			ONO TO THE CONTROL OF A	020-111-14-0

<u>Mark</u>	No.	Description	Part No.	Mark No.	Description	Part No.
G	CSB	ASSY		J FLPB	ASSY	
SWIT	СН			SEMICONDI		
• • • • • • • • • • • • • • • • • • • •	S903		DSG1017	IC101	BOTONS	PD4753B
OTHE			5001017	IC101		S-806D
OTTIL		KR CONNECTOR 2P	S2B-PH-K-S	0102		DTA124ES
	CNSTO	KN CONNECTOR 2F	32D-FN-K-3		103, 0104	DTC124ES
				D101,D	105, D107, D108	SLR-342DUT31
m.					103, D106	SLR-342VCT31
	BISB A	ASSY		D104		SLR-342YCT31
SWIT	CH			SWITCHES	100	D001000
	S901		DSG1017	S101,S CAPACITOR		RSG1030
OTHE	RS			CAP ACTION C105	10	CEJA470M6R3
	CN914	KR CONNECTOR 2P	S2B-PH-K-S	C103		CKPUYB102K50
				C102, C	104, C107-C109, C111	CKPUYF103Z25
				RESISTORS		
1 1 1	OWF	R SUPPLY ASS	Υ	All Re	sistors	RD1/4PU
			•	OTHERS		
SEMI(CTORS		CN102	FFC BOTTOM CONNECTOR 5P	52492-0520
	1C201 1C203		AN1431T	111.4.0	REMOTE RECEIVER UNIT	GP1U28X
	1C203	C205	UPC358C VZF1047	V101	FL TUBE SPACER	VAW1042 VEC1599
	1C206		VZF1048	CN101	1.25 FJ CONNECTOR	VKN1375
$oldsymbol{ u}$	0101,01	50, Q151	VZF1056			
Δ	Q102		2SC3377	X101	FL HOLDER CERAMIC RESONATOR	VNF1087
	0201,02	02	T7F4T	X101	(5.00MHz)	VSS1104
	0203,02		T7F4S		,	
		06, 0252 08, 0214	2SC1740S 2SA933S	172		
	Q207, Q2	.00, 0214	23A3333	KEYB	ASSY	
	0213		2SD2395	SEMICONDI	JCTORS	
Δ	Q251 D101		2SD2007 D2SB60F4004	0201,0		DTC124ES
	D202		VZF1051	D201, D	202	SLR-342MCT31
	D204, D2	05	VZF1052	SWITCHES		
	D152, D2	40	VZF1054	S201-S	208	RSG1030
	D132, D2	.40	VZF1054 VZF1055	CAPACITOR	RS	
	D106, D1		VZF1057	C202		CKPUYB102K50
A		112, D254	10ELS2	C201		CKPUYF103Z25
⚠	D104		1SS270A	RESISTORS		
	D208, D2	51	1SS270A	All Re	sistors	RD1/4PU
Δ	D153		VZF1045	OTHERS		
Δ	D230-D2 D154	32	VZF1045 EG01C		5P FFC CONNECTOR	VKN1181
<u>^</u>	D154 D103		MTZJ2.7B		13P FFC CONNECTOR	VKN1217
				CN202	1.25 FJ CONNECTOR	VKN1375
	D253 D255		MTZJ2.7B			
Δ	D255 D200		MTZJ8.2B PS2561L1-1VM		1	
	D207		RD33FB2	LEDB	ASSY	
	D206		\$2LA20	SEMICOND		
OT! !	D203		S3L20U	01-Q3	JUIUNJ	2PD601A
OTHE		FUOF (0. 151)	VEV4.0.4.5	Q4, Q5		UN2212
lacktriangle	F101	FUSE (3.15A) 202 FUSE	VEK1046 VEK1047	D1-D3		CL-170SB-X
<u> </u>		11 FUSE(1A)	VEK 1047 VEK 1041	D4-D7		PG1112H-430
$\overline{\Delta}$		10 FUSE(1.25A)	VEK1045	D8-D10		UDZ12B
				RESISTORS		
					sistors	RS1/10SJ
				OTHERS		
				CN1 5	P FFC CONNECTOR	VKN1374

Mark N	lo. Description	Part No.	Mark		Part No.
V	LD MAIN ASSY			L411, L587	LAU270J
	LD MAIN ASST			L431,L432,L575	LAU430J
EMIC	ONDUCTORS			L671	LAU4R7J
		B.44.000.		L462 L414	LAU560J LAU8R2J
	IC761, IC904	BA10393F		L414	LAUSKZJ
	10223, 10251, 10680, 10903	BA4560F		L463	LEAGOT 1
	10905, 10906	BA4560F		F223 FERRITE BEAD	LFA561J
	10352	CA0002AM		F573 14.3MHz FILTER	VTF1094 VTF1095
1	IC171, IC803	LA6510		L201, L209, L301, L302, L312	VTL1058
	10400	1 4710411		CHIP COIL (22µH)	VIL1030
	10400	LA7134M		L207 CHIP COIL (1.5µH)	VTL1059
	10901	LA9420M	015	· · · · · · · · · · · · · · · · · · ·	VILIOSS
	IC801	LA9425	CAP	ACITORS	
	IC802 IC353	LC78681KE M51131L		C417, C418, C421, C434, C543	CCSQCH100D50
- 4	10333	MOIISE		C577, C845	CCSQCH100D50
	10182, 10183	MM6558XF		C255, C256, C353, C655, C821	CCSQCH101J50
	IC221	NJM78L08A		C837-C839, C843, C864, C865	CCSQCH101J50
	10227			C943	CCSQCH101J50
	IC208	NJM79L08A NJU6322KE			
	10202	PD0236AM		C432, C436, C483	CCSQCH120J50
	10202	FD0230AM		C412	CCSQCH121J50
	IC101	PD0246A2		C408, C414, C484, C569	CCSQCH150J50
	10201	PD2029AM(L)		C355, C823, C901	CCSQCH151J50
	10500	PD6159B		C313, C352	CCSQCH180J50
	10902	TA8410AK			
	10181, 10762, 10907	TC4W53F		C205, C509, C824, C973	CCSQCH220J50
,	10101, 10/02, 1030/	1048331		C413, C555, C920, C921	CCSQCH221J5
1	IC203, IC301	TC74HC157AF		C550	CCSQCH240J5
	10302, 10620	TC74HC4053AF		C354, C411, C416, C431, C830	CCSQCH270J5
	10302, 10320	TC7S00F		C104, C105, C356, C433, C451	CCSQCH330J50
	IC102	TC7S32F			
	10205, 10209, 10550	TC7SU04F		C579, C596	CCSQCH330J5
	10203, 10203, 10330	10730041		C351, C407, C485, C672	CCSQCH390J5
1	10650	TC7WOOF		C671	CCSQCH391J5
	10207	TC7WH74FU		C222, C257-C260, C405, C461	CCSQCH470J5
	IC204	TC7WU04F		C229, C597	CCSQCH5R0C5
	0121,0182,0482,0580,0645	2PB709A			
	0672,0906	2PB709A		C358, C598, C806	CCSQCH680J5
	40. 21 4000			C435, C822, C829	CCSQCH7R0D5
(0269, 0270, 0391-0393, 0401	2PD601A		C357, C825	CCSQCH820J5
	0441,0481,0625,0626,0636	2PD601A		C459, C462	CCSQCH910J5
	0646, 0647, 0655-0658	2PD601A		C230	CCSQCJ3R0C5
	0661,0662,0671,0803,0811	2PD601A		CCEC	CENT 100M16
(0902-0905, 0908, 0909	2PD601A		C656 C437	CEAL100M16
				C927, C931	CEAL101M6R3
(Q834	2SA854S		C936, C940	CEAL220M6R3
	0152	2SC3802K		•	CEAL470M16 CEAL470M6R3
(0261,0262	2SD2144S		C316	CEAL4/UMONS
(0211-0214, 0217, 0394, 0651	DTA124EK		C975	CEAND100N16
	0981	DTA124EK		C263, C264, C629, C639	CEANP100M16
				C187, C211, C441, C856	CEANP220M10 CEANP470M6R
(0122,0181,0215,0216,0652	DTC124EK		C221, C394, C397, C398, C884	CEAS100M50
(0901,0971	DTC124EK		C332, C391	CEASTOUMSO CEASTOTM10
(0910	FMY1A		0332,0331	CLASIOIMIO
	D221	EC10QS04		C115	CEAS102M6R3
C	D311,D505	KV1851		C269, C270, C867	CEASTROM50
				C399, C971, C972, C981, C982	CEAS220M25
	D181, D650, D655, D821, D881	MA111		C863, C902, C934, C977	CEAS2R2M50
	D901, D902, D981	MA111		C102, C202, C204, C209	CEAS470M16
	D223, D224	MA152WA			
	D215, D905	MA152WK		C223, C224, C261, C262, C302	CEAS470M16
	D851	UDZ2.0B		C304, C317, C320, C382, C390	CEAS470M16
[D115	UDZ5.1B		C396, C802, C804, C832, C834	CEAS470M16
DILS	AND FILTERS			C842, C852, C854, C859, C860	CEAS470M16
	L413	LAU100J		C253, C254	CEAS471M10
	L401	LAU101J			
	L352, L821-L823	LAU181J		C862, C984	CEAS4R7M50
	L251, L252, L311, L331, L351	LAU220J		C383, C916, C922	CEASR47M50
		LAU220J	•	C439	CEV100M16
	L412.L461.L482 L831 L832				
	L412, L461, L482, L831, L832	LA02203		C471, C473, C475, C507, C531	CEV101M6R3

Mark		Description	Part No.	Mark	No		Description	Part No.
		1, C591, C593	CEV101M6R3	отн	FRS	:		
	C928		CFTXA104J50	• 111				
	C477, C91	1,C929	CFTXA154J50				6P FFC CONNECTOR	52045-0645
	C930		CFTXA473J50		CN	311	10P FFC CONNECTOR	52045-1045
	C478		CFTXA683J50		CN	301	15P FFC CONNECTOR	52045-1545
	0470		CI 17A0055550		CN	103	16P FFC CONNECTOR	52045-1645
	0405 001	0 0017 0010	0//00/01/00//50				11P TOP POST	B11P-SHF-1AA
		0, C917, C918	CKSQYB102K50		011	002	111 101 1001	DITT-OHI-TAK
	C942		CKSQYB104K25		CN	015	KD COMMENTOD OD	DOD DU V E
	C925		CKSQYB332K50				KR CONNECTOR 2P	B2B-PH-K-E
	C379, C38	0	CKSQYB392K50				CN208 KR CONNECTOR 2P	B2B-PH-K-S
	C371-C37	6, C388, C912	CKSQYB472K50		CN	803	3P TOP POST	B3P-SHF-1AA
		0,000,000	01.02.101721.00				SCREW	BBZ30P060FCC
	C763		CKCUABEOOKEU		CN	101	B TO B CONNECTOR 12P	BTFN12S-3SB7
		0 0101 0104 0150	CKSQYB682K50					21111120 0007
		2, C121, C124, C153	CKSQYF103Z50		CN	102	B TO B CONNECTOR 20P	BTFN20S-3SB7
		3, C181, C183, C184	CKSQYF103Z50				OPTICAL MODULE	
		9,C201,C203	CKSQYF103Z50		JA.	331		GP1F32T
	C206-C20	8, C210, C213, C214	CKSQYF103Z50				PCB BINDER	VEF1040
							4P PIN JACK	VKB1070
	C231, C25	1, C252, C281-C283	CKSQYF103Z50		JA	251	1P PIN JACK	VKB1074
		3, C311, C312, C315	CKSQYF103Z50					
							64P IC SOCKET	VKH1004
		9, C331, C361, C362	CKSQYF103Z50		CMI	502	26P FFC CONNECTOR	VKN1202
		6, C389, C395, C422	CKSQYF103Z50					
	C442, C51	0, C511, C558	CKSQYF103Z50			801	27P FFC CONNECTOR	VKN1203
					CN	121	30P FFC CONNECTOR	VKN1206
	C575, C57	6, C580, C583, C587	CKSQYF103Z50				SCREW TERMINAL	VNE1948
		2, C801, C803, C811	CKSQYF103Z50					
					X16	01	CERAMIC RESONATOR (9MHz)	VSS1040
		1, C833, C841, C846	CKSQYF103Z50		Х3		CRYSTAL RESONATOR (16MHz)	
		3, C861, C881-C883	CKS0YF103Z50					
	C885, C92	4, C935, C937, C939	CKSQYF103Z50		X3.		CHIP CRYSTAL (36.86MHz)	VSS1085
					X50	05	CRYSTAL RESONATOR (14MHz)	VSS1103
	C945, C94	6, C961, C962, C974	CKSQYF103Z50					
	C983	.,	CKSQYF103Z50					
		3, C122, C151, C152						
			CKSQYF104Z25					
		2, C182, C227, C228	CKSQYF104Z25		JCI	KB.	ASSY	
	C267, C26	8, C385, C387, C392	CKSQYF104Z25					
				SEM	ICO	NDL	JCTORS	
	C402, C40	4, C419, C430, C438	CKSQYF104Z25					TOTALIOUS AAC
		5, C447, C472, C474	CKSQYF104Z25				IC322	TC74HCU04AF
		8, C524, C532, C536			D34	41		MA111
			CKSQYF104Z25	COIL	S			
		0, C542, C556, C557	CKSQYF104Z25	JOIL				
	0562,05/	2, C582, C586, C589	CKSQYF104Z25			22, L3		LAU1R0J
					L3:	21, L	324	LAU220J
	C592,C59	4, C620, C622	CKSQYF104Z25		L3:	23, L3	325	PTL1003
	C626-C62	8, C630, C636, C638	CKSQYF104Z25	CAP	ACI	TOP	C	
		1-C683, C764, C805	CKSQYF104Z25	CAP	ACI	IUN	3	
		8, C866, C886	CKSQYF104Z25		C3:	22, C3	324, C326, C328	CEAL470M16
					C3	23. C	327, C341-C345	CKSQYF103Z50
	(913-(91	5, C919, C963, C976	CKSQYF104Z25				3480	CKSQYF104Z25
					05	700,	23400	CK3011 104223
		5, C855, C926, C938	CKSQYF223Z50	RES	SIST	COF	RS	
		8, C393, C908, C909	CKSQYF224Z25					
		6, C174, C460, C826	CKSQYF473Z50		Al	I Res	sistors	RS1/10S UJ
	C828, C93		CKSQYF473Z50	OTH	FDS			
	C923	_,	CQMA103J50	OIII				
	0323		CUMA I USUSU				JA322 REMOTE CONTROL JACK	RKN1004
	0000				JA:	324	1P PIN JACK	VKB1074
	C903		CQMA222J50				1P PIN JACK	VKB1097
	C265, C26	6	CQMA332J50				SCREW TERMINAL	VNE1948
	C941		CQMZA681J50					**************************************
DEC								
UE2	STORS							
	R753		RA4C221J					
	R203, R75	1,R752	RA4C471J					
		3, R834, R837, R839	RN1/10SE1002D					
			RN1/10SE1002D					
	R891, R89							
	R152,R15	Ö	RN1/10SE1003D					
	R532		RN1/10SE1100D					
	R531		RN1/10SE1800D					*
	R151,R89	3. R894	RN1/10SE3302D					
	•	4, R259-R262	RN1/10SE4702D					
			•					
	VR450 (PCP1025					
		>						
	VR603 (PCP1028					
	VR604, VF	$(47k\Omega)$	PCP1031					
	Other Re	esistors	RS1/10S					

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
0	DVD M	AIN ASSY			0101, 0102, 0886, 0887,	Q894	DTC114TK DTC124EK
					D786, D787,		1SS355
SEMI	CONDU				D771,D921,	D981, D982	DAN202K
	1C631,10 1C851	0981	BA10393F BA6797FP		D110		EC10QS04
	IC901		CXA2521AQ		D761		KV1410
	IC801		CXD2545Q		D101		RB501V-40
	IC101		HD6417032F20		D640		UDZ2.0B
				COIL	S AND FIL	TERS	
	IC162		HM514800CJ-7			SOLID INDUCTOR	ATL7001
	IC282		HM62256BLFP-8T			CHIP INPEDER	DTL1028
	IC995		IR3C07N			VIDEO FILTER	VTF1072
	IC281	25.05	LC98000K-V26A			F538, F539 FERRITE BEAD	
	10531, 10	.030	MB81C4256A-70PJ		F537 FERF		VTF1074
	IC551		MC14577CF		F1491	FERRITE BEAD	VTF1075
		C621, IC781, IC931	NJM2100M			FERRITE BEAD	VTF1075
		672, IC732, IC791, IC971	NJM2904M		F199	FERRITE BEAD	VTF1077
	10831, 10	2911	NJM4580M			SOLID INDUCTOR	VTF1078
	I C601		PA0065AM			FERRITE BEAD	VTF1079
	IC2050		PD5415F		E1/17 E101	E100 EEDDITE BEAD	VTF1080
	IC161		PD4695A			F188 FERRITE BEAD L471,L591,L701	VTL1058
	1C501		PD4696A		2.31,2702,	CHIP COIL (22µH)	
	IC201 IC165		PD4784A PD4795B		L761,L801		VTL1058
	10103		FD4/93B		L762	CHIP COIL (1.5µH)	VTL1059
	IC1030		PD6226A		1501 1502	CHIP COIL(0.15µH)	VTL1060
	IC104		PDK022A		1502 1723	CHIP COIL (10µH)	VTL1060
Δ	1C381		TA78M08F		L421	CHIP COIL (10µH)	VTL1063
		C815, IC820	TC4W53F	040		Oπ σστε (47μπ)	VIL.1003
	IC102		TC558128AJ-20	CAP	CITORS		
	10004		TC74UC120AE		C509		CCSRCH100D50
	1C284 1C285		TC74HC139AF TC74HC14AF		C800		CCSRCH101J50
	1C203		TC74HC20AF		C601-C604,	C606, C904	CCSRCH121J50
	1C204		TC74HC4052AF		C902, C903		CCSRCH151J50
	IC921		TC74HC4053AF		C723		CCSRCH180J50
					C620		CCSRCH181J50
	IC832		TC74HC4066AF		C765		CCSRCH220J50
	1C202		TC74HC573AF		C716, C810,	C917	CCSRCH221J50
	10641,10	2/61	TC74HCU04AF		C508, C618		CCSRCH270J50
	1C288		TC74VHC08FS		C914		CCSRCH390J50
	1C302		TC7S04F				0000001001 150
	IC105		TC7SH02F		C862-C864		CCSRCH391J50
	IC106		TC7SH32F		C730, C814		CCSRCH470J50
	IC311		TC7ST08F		C616, C681 C724		CCSRCH471J50 CCSRCH560J50
	IC287		TC7W125FU		C556, C566,	C714	CCSRCH5R0C50
	IC751		TLC272CPS				
	10721		TI CEEAGING		C634, C806,	C854, C855	CCSRCH680J50
	1C731 1C421		TLC5540 INS		C107, C108		CCSRCH7R0D50
	1C421		UPD4516161G5-A12-7JF UPD61021		C813		CCSRCH820J50
	1C205		VKH1011		C476	0150 0100 0100	CCSRCH910J50
	IC301		ZR38521		CITE, CISI,	C159, C162, C180	CEV101M6R3
					C280 C401	C420, C430-C440	CEV101M6R3
	0473, 048	81-0485, 0551, 0552	2PB709A			C523, C532, C533	CEV101M6R3
	0561,056	62, Q591, Q667, Q702	2PB709A		C536-C540,		CEV101M6R3
	0705,070	08, Q741, Q792, Q814	2PB709A		C755		CEV1ROM50
	Q848, Q85	• •	2PB709A		C325, C384,	C571, C592, C857	CEV220M16
	0382,038	83, 0471, 0472	2PD601A				
	0571_057	73, 0605, 0669, 0701	2PD601A		C859	6731 6733 6666	CEV220M16
		71, 0773, 0793, 0845	2PD601A			C731, C733, C900	CEV220M6R3
		14, 0916, 0925, 0936	2PD601A		C912, C919,		CEV220M6R3
	Q946	, 20.0, 2020, 2000	2PD601A			, C281, C321, C327 , C517, C591, C701	CEV470M6R3 CEV470M6R3
	0381		2SB1260			,0017,0091,0701	OLY47 UMONO
	0710 071	15	2002001		C804, C996		CEV470M6R3
	0712-07	10	2SC3802K		C720, C787		CEVNP100M16
	0103	17,0618,0772,0811	DTA114EK DTC114EK		C789		CEVNP2R2M35
	u104, u0	17, 4010, 4772, 4011	DIVITER		C908	C040	CFHS333J16
					C788, C839.	, 0040	CFHS473J16

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	C884, C885	, C907	CFHSP104J16		R401,R	402, R404, R405, R421	RA4C220J
	C686, C909		CFHSQ103J16		R423, R	424, R501, R502	RA4C220J
	C882, C883		CFHSQ272J50		R998		RA4C390J
	C677		CFHSQ822J16		R2510,	R2620, R2630, R2640, R4910	RS1/10S0R0J
	C843, C844	, C894	CKSQYB104K25		R723		RS1/10S0R0J
	C615, C680	, C713, C718, C742	CKSQYB105K10		R892		RS1/10S1R2J
	C746, C747	, C751, C811	CKSQYB105K10		R573		RS1/16S1001F
	C815, C817		CKSQYB224K16		R862, R	863, R866, R867	RS1/16S1002F
	C759, C893		CKSQYB474K16		R149, R	166, R477, R693	RS1/16S1003F
	C206, C207	, C441-C446, C519	CKSQYF225Z16		R762, R	763, R766, R786, R790	RS1/16S1003F
	C527-C530		CKSQYF225Z16		R814,R	817, R846, R873, R876	RS1/16S1003F
	C749, C766		CKSRYB102K50		R999		RS1/16S1003F
	C101, C121	, C169, C178, C290	CKSRYB103K50		R383, R	864, R865	RS1/16S1202F
		, C574, C605, C617	CKSRYB103K50		R781, R	782, R788, R900-R903	RS1/16S1502F
	C676, C700	, C711, C762, C764	CKSRYB103K50		R580, R	582, R783, R784	RS1/16S2202F
	C816, C830	, C832, C837, C838	CKSRYB103K50				
		, C881, C906	CKSRYB103K50		R835-R	840, R871, R872, R893	RS1/16S2202F
	C997-C999		CKSRYB103K50		R914, R	916, R936, R946	RS1/16S2202F
	C983, C984		CKSRYB104K16		R232, R	236, R793, R794	RS1/16S2203F
	C809		CKSRYB152K50			885, R989, R990	RS1/16S2203F
						720, R857	RS1/16S3901F
	C692	****	CKSRYB153K50		D700 D	AAA BAAA BAAA	DO1 /100/700E
		, C649, C819	CKSRYB222K50			800, R829, R830	RS1/16S4702F
	C931, C932		CKSRYB222K50			844, R854, R855, R925	RS1/16S4702F
	C847		CKSRYB333K16			928, R945	RS1/16S4702F
	C741		CKSRYB472K50			833, R834 741, R742	RS1/16S4703F RS1/16S5601F
	C735, C808		CKSRYB473K16		1101 0411		1.0.1, 1.00001.
		, C109-C115, C120	CKSRYF104Z16		R831.R	832	RS1/16S5602F
		, C160, C161	CKSRYF104Z16		R874,R		RS1/16S6802F
		, C170, C171	CKSRYF104Z16		R882, R		RS1/16S8202F
		, C181, C184-C187	CKSRYF104Z16		R4010		VCN1058
					VR501	$(4.7k\Omega)$	VCP1090
		, C202-C205, C209	CKSRYF104Z16				
		-C287, C289, C291	CKSRYF104Z16		VR904,		VCP1092
		, C300-C303	CKSRYF104Z16		VR621,		VCP1094
	C305-C307	, C309, C311, C322	CKSRYF104Z16		VR922	(10kΩ)	VCP1131
	C326, C328	, C382, C383	CKSRYF104Z16			Resistors	RS1/16S
	C301_C303	, C395, C397, C399	CKSRYF104Z16	OTH	ERS		
		, C421-C426	CKSRYF104Z16		CN161,	CN271 PH CONNECTOR 2P	S2B-PH-SM3
		, C481, C483, C484	CKSRYF104Z16			CN602 B TO B CONNECTOR 601	P VKN1293
		, C502-C507	CKSRYF104Z16		CN109	7P FFC CONNECTOR	VKN1299
	C510 C516	, C518, C520-C522	CKSRYF104Z16		CN101	13P FFC CONNECTOR	VKN1305
	C310-C316	, 0316, 0320-0322	CKSHIF 104210			24P FFC CONNECTOR	VKN1316
		, C535, C553-C555	CKSRYF104Z16		CNOOS	B TO B CONNECTOR 14P	VKN1324
		, C572, C573, C577	CKSRYF104Z16			CN502, CN702	VKN1345
		, C612, C613, C621	CKSRYF104Z16		CHZOI,	26P FFC CONNECTOR	VIVI 343
		, C640, C671, C675	CKSRYF104Z16		CN251	30P FFC CONNECTOR	VKN1349
	C683, C702	-C704, C721, C732	CKSRYF104Z16		X501	CHIP CRYSTAL (27.00MHz)	VSS1086
		, C739, C750, C761	CKSRYF104Z16		X201	CHIP CERAMIC (5.00MHz)	VSS1102
		, C802, C803, C805	CKSRYF104Z16		X301	CHIP CERAMIC (3:00MHz)	VSS1105
		, C820, C822, C823	CKSRYF104Z16		X101	CHIP CERAMIC (20MHz)	VSS1106
		, C858, C901, C911	CKSRYF104Z16		VIO.	CITIF CENAMIC (20MILZ)	1001100
	C918, C921	,C930,C971,C972	CKSRYF104Z16				
	C980-C982	1	CKSRYF104Z16				
	VC510 (2		VCM1008				
	VC765 (4	0pF)	VCM1010				
RES	ISTORS						
	R109, R110	, R112, R195	RA4C103J				
	R414-R419		RA4C103J				
		6, R148, R153-R157	RA4C220J				
		, R201, R202	RA4C220J				
		, R265, R266, R274	RA4C220J				

Mark No.	Description	Part No.	Mark No. Description	Part No.
P FTSB	ASSY		C301, C305, C309, C311, C317 C319, C422, C424, C426, C429	CEAS101M10 CEAS101M10
			C431, C434, C436, C438 C303	CEAS101M10
SEMICONDU			C102, C104, C110, C112, C114	CKSQYB102K50 CKSQYF104Z25
	1C306, 1C403	BA10393F	0.02,0.01,0110,0112,011	OKOZII 104ZZO
1C301	IC303, IC305, IC401	MC14577CF NJM072BM	C116-C118, C202, C203, C205	CKSQYF104Z25
10302,	10303, 10303, 10401	NJM2100M	C208, C211, C213, C215, C217	CKSQYF104Z25
IC304, I	IC402	NJM4580M	C302, C304, C306-C308, C310 C312-C316, C318, C320-C322	CKSQYF104Z25
			C406, C407, C413, C414, C423	CKSQYF104Z25 CKSQYF104Z25
	309,0401-0403	2PB709A	0.00,0.07,0.110,0.17.1,0.120	OROGII 104220
	303, 0305, 0404	2PD601A	C425, C427, C428, C430, C432	CKSQYF104Z25
Q304, Q3	206, D303, D305-D307	DTC114EK 1SS355	C435, C437, C439, C442, C447	CKSQYF104Z25
	401, D402	1SS355	RESISTORS	
D308	,	DAN202K	R424	RN1/10SE1801D
CAPACITOR	es.		R422	RN1/10SE2201D
C316		CCSRCH101J50	R309	RN1/10SE2700D
C401, C5	501	CEV100M16	R425	RN1/10SE2702D
C303		CFHS473J16	R310, R420, R421	RN1/10SE3301D
C306, C4		CFHSQ471J50	R312, R426	RN1/10SE4701D
C209, C2	210, C305	CKSQYB105K10	R311	RN1/10SE5601D
C200 C	403 C406	CVCDVD100VE0	VR301 (22KΩ)	PCP1030
C308, C2	403, C406	CKSRYB102K50 CKSRYB472K50	Other Resistors	RS1/10S
C311		CKSRYB473K16	OTHERS	
	211, C302, C304, C307	CKSRYF104Z16	CN103 16P FFC CONNECTOR	52045-1645
C309, C3	312, C314, C315, C402	CKSRYF104Z16	2P PIN JACK	AKB7076
****	407		CN101 B TO B CONNECTOR 12P	BTFN12P-3RD7
C404, C4 C310	40/	CKSRYF104Z16 CCSRCH101J50	CN102 B TO B CONNECTOR 20P	BTFN20P-3RD7
C405		CKSQYB224K16	4P MINI DIN SOCKET	VKN1078
RESISTORS		VICE I DELTIK I V	SCREW TERMINAL	VNE1948
		DC1 /1601001F	SHIELD CASE A	VNF1098
R322 R405		RS1/16S1001F RS1/16S1801F	SHIELD CASE C	VNF1100
R406		RS1/16S3601F		
R321		RS1/16S6801F		
Other F	Resistors	RS1/16S□□□J	D MODE ACCV	
OTHERS			MCRB ASSY	
CN101, 0	CN102 B TO B CONNECTOR	30P VKN1294	SEMICONDUCTORS	
			1C16, 1C17	NJM2100M
			10101	PD9014A
A	D 40037		IC51	TC4W53F
Q MGYC	R ASSA		IC15, IC52	TC74HC4053AF
SEMICONDU	JCTORS		ICTT	TC74HCU04AF
1C301		CXD2046Q	IC171	TC74VHCT374F
1C202		LC32464P-80	IC18	TC7WU04F
10102,	IC103	MB81C1501PF	0252, 059	2PB709A
IC101		PD3212A	011	2PD601A
1C201		PDC016A	· Q13	DTC124EK
0402.04	404, Q407, Q411, Q414	2PB709A	Q55, Q56, Q60	IMT1A
	403, Q412, Q413	2PD601A	0254, 051	IMX1
	410, 0415, 0416	2SC1740S	012, 0253, 052-054	IMZ1A
0417,04	420	DTA124EK	Q57, Q58	IMZ1A
Q418, Q4	419,0421	DTC124EK	D11	SVC201SPA
COILS			COILS	
L401-L4	403	LAU220J	L271	LAU270J
CAPACITOR			L272	LAU390J
C433		CCSQCH100D50	L273 L11	LAU430J LFA220J
	401,C404	CCSQCH220J50		LINZZVJ
C405	, • .• .	CCSQCH470J50	CAPACITORS	
C403		CCSQCH560J50	C274, C30	CCSQCH100D50
C402		CCSQCH6R0D50	C22 C15	CCSQCH180J50 CCSQCH221J50
0411		00000010 150	C275, C277	CCSQCH330J50
C411	103, C109, C111, C113	CCSQCH910J50 CEAS101M10	C276	CCSQCH390J50
	201, C204, C207	CEASIOIMIO CEASIOIMIO		
	210, C212, C214, C216	CEAS101M10		

C171, C173, C174, C179 C23, C92, C93 C24 C16, C19 C1, C110, C122, C126, C152 C2, C208, C301, C305, C306 C313, C4, C52, C53, C55 C62, C64 C12 C13 C13 C11, C18, C20, C25, C26 C500 C107, C109, C113, C115, C121 C125, C153, C17, C207, C215 C217, C219, C220, C255, C28 CC30CH470J50 CCSQCH470J50 CEJA470M10 CEJA470M10 CEJA470M10 CFTXA103J50 CFTXA334J50 CKSQYF103Z50 CKSQYF103Z50 CKSQYF104Z25 CKSQYF104Z25 CKSQYF104Z25 CKSQYF104Z25 CKSQYF104Z25 CKSQYF104Z25 CKSQYF104Z25	Mark No.	Description	Part No.
C23, C92, C93 C24 CCSQCH470J50 C16, C19 C1, C110, C122, C126, C152 C2, C208, C301, C305, C306 C313, C4, C52, C53, C55 C62, C64 C12 C13 C13 C11, C18, C20, C25, C26 C500 C107, C109, C113, C115, C121 C125, C153, C17, C207, C215 CCSQCH470J50 CCSQCH470J50 CEJA470M10 CEJA470M10 CEJA470M10 CFTXA103J50 CFTXA334J50 CKSQYF103Z50 CKSQYF103Z50 CKSQYF104Z25 CKSQYF104Z25 CKSQYF104Z25	C171,	C173, C174, C179	CCSQCH470J50
C16, C19 C1, C110, C122, C126, C152 C2, C208, C301, C305, C306 C313, C4, C52, C53, C55 C62, C64 C12 C13 C13 C11, C18, C20, C25, C26 C500 C107, C109, C113, C115, C121 C125, C153, C17, C207, C215 C2JA470M10 CEJA470M10 CEJA470M10 CFTXA103J50 CFTXA334J50 CKS0YF103Z50 CKS0YF103Z50 CKS0YF103Z50 CKS0YF104Z25 CKS0YF104Z25 CKS0YF104Z25			CCSQCH470J50
C1, C110, C122, C126, C152 C2, C208, C301, C305, C306 C313, C4, C52, C53, C55 CEJA470M10 C62, C64 CEJA470M10 C12 CFTXA103J50 C13 CFTXA334J50 C11, C18, C20, C25, C26 C500 CKSQYF103Z50 C107, C109, C113, C115, C121 CKSQYF104Z25 C125, C153, C17, C207, C215 CEJA470M10 CEJA470M10 CEJA470M10 CEJA470M10 CEJA470M10 CFTXA103J50 CFTXA334J50 CKSQYF103Z50 CKSQYF104Z25 CKSQYF104Z25			CCSQCH910J50
C2, C208, C301, C305, C306 C313, C4, C52, C53, C55 C62, C64 C12 C7, C13 C11, C18, C20, C25, C26 C500 C107, C109, C113, C115, C121 C125, C153, C17, C207, C215 C214, C204, C305, C306 CEJA470M10 CEJA470M10 CEJA470M10 CFTXA103J50 CFTXA334J50 CFTXA334J50 CKS0YF103Z50 CKS0YF103Z50 CKS0YF104Z25 CKS0YF104Z25 CKS0YF104Z25	C16, C	19	CEJA101M10
C313, C4, C52, C53, C55 C62, C64 C12 C13 C13 C13 C11, C18, C20, C25, C26 C500 C107, C109, C113, C115, C121 C125, C153, C17, C207, C215 C13 CEJA470M10 CEJA470M10 CFTXA103J50 CFTXA334J50 CKS0YF103Z50 CKS0YF103Z50 CKS0YF104Z25 CKS0YF104Z25 CKS0YF104Z25	C1, C1	10, C122, C126, C152	CEJA470M10
C313, C4, C52, C53, C55 C62, C64 C12 C13 C13 C13 C11, C18, C20, C25, C26 C500 C107, C109, C113, C115, C121 C125, C153, C17, C207, C215 C13 CEJA470M10 CEJA470M10 CFTXA103J50 CFTXA334J50 CKS0YF103Z50 CKS0YF103Z50 CKS0YF104Z25 CKS0YF104Z25 CKS0YF104Z25	C2. C2	08, C301, C305, C306	CEJA470M10
C62, C64 C12 C12 C13 C13 C13 C14 C15 C15 C16 C17, C18, C20, C25, C26 C500 C107, C109, C113, C115, C121 C125, C153, C17, C207, C215			
C12 CFTXA103J50 C13 CFTXA334J50 C11, C18, C20, C25, C26 CKS0YF103Z50 C500 CKS0YF103Z50 C107, C109, C113, C115, C121 CKS0YF104Z25 C125, C153, C17, C207, C215 CKS0YF104Z25	C62, C	64	
C11, C18, C20, C25, C26	C12		
C500 CKSQYF103Z50 C107,C109,C113,C115,C121 CKSQYF104Z25 C125,C153,C17,C207,C215 CKSQYF104Z25	C13		CFTXA334J50
C500 CKSQYF103Z50 C107,C109,C113,C115,C121 CKSQYF104Z25 C125,C153,C17,C207,C215 CKSQYF104Z25	C11. C	18, C20, C25, C26	CKS0YF103750
C125, C153, C17, C207, C215 CKSQYF104Z25		, , , , , , , , , , , , , , , , , , , ,	
	C107,	C109, C113, C115, C121	CKSQYF104Z25
C217, C219, C220, C255, C28 CKSQYF104Z25	C125,	C153, C17, C207, C215	CKSQYF104Z25
	C217,	C219, C220, C255, C28	CKSQYF104Z25
C302-C304, C307-C312, C314 CKSQYF104Z25	C302-	C304, C307-C312, C314	CKSQYF104Z25
C51, C54, C56-C61, C65 CKSQYF104Z25	C51, C	54, C56-C61, C65	
C67 CKSQYF104Z25			CKSQYF104Z25
C14 C0MZA682J50			CQMZA682J50
VC11 (20pF) VCM-008	VC11	(20pF)	VCM-008
RESISTORS	RESISTORS	3	
R52 RN1/10SE1801D	R52		RN1/10SE1801D
R51 RS1/10S1000F			
R74 RS1/10S1001F			
R77 RS1/10S10R0F			
R71 RS1/10S1501F	R/1		RS1/10S1501F
R72 RS1/10S1802F	R72	·	RS1/10S1802F
R76 RS1/10S27R0F			
R79 RS1/10S3300F			
R80 RS1/10S3900F			
R78 RS1/10S39R0F	H/8		RS1/10S39R0F
R73 RS1/10S47R0F			
R75 RS1/10S5600F			
R81 RS1/10S68R0F		(222)	
VR91 (330kΩ) VCP1143		· ·	
Other Resistors RS1/10S□□□J OTHERS		nesistors	KOI/IUSJ
		COVCTAL (2 STORAGER)	V001107
X11 CRYSTAL (3.579545MHz) VSS1107	XII		
PCB BINDER VEF1040 CN12 26P FFC CONNECTOR VKN1202	CN12		
KN102 EARTH METAL FITTING VNF1084			

6. ADJUSTMENT (調整方法)

6.1 ADJUSTMENT ITEMS AND LOCATION (調整項目と調整位置)

Adjustment Items

[Mechanical Part]

CLD

- Tilt Offset Adjustment (チルトオフセット調整)
- Tangential Direction Angle Adjustment for Side A (A面タンジェンシャル傾き調整)
- Spindle Motor Centering Adjustment for Side A (A面スピンドル芯出し調整)
- Crosstalk Check and Fine Tilt Offset Adjustment for Side A (A面クロストーク確認及び、チルトオフセット微調整)
- **5** Focus Servo Loop Gain Adjustment (フォーカスサーボループゲイン調整)
- **6** Tracking Servo Loop Gain Adjustment (トラッキングサーボループゲイン調整)
- **7** Tangential Direction Angle Adjustment for Side B (B面タンジェンシャル傾き調整)
- Spindle Motor Centering Adjustment for Side B (B面スピンドル芯出し調整)
- Crosstalk Check and Fine Tilt Offset Adjustment for Side B (B面クロストーク確認及び、チルトオフセット微調整)

DVD

- DVD Focus S-curve Level Coarse Adjustment (DVDフォーカスS字レベル粗調整)
- 11 RF MAX Adjustment (RF MAX調整)
- 12 Jitter Adjustment (ジッター調整)
- Tracking Error Level Adjustment (トラッキングエラーレベル調整)
- 14 DVD Focus S-curve Level Fine Adjustment (DVDフォーカスS字レベル微調整)

[Electricall Part]

CLD

- ① Video Level Adjustment (ビデオレベル調整)
- ② PLL Offset Adjustment (PLLオフセット調整)
- ③ Y Output Level Adjustment (Y出カレベル調整)

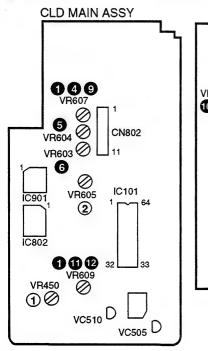
DVD

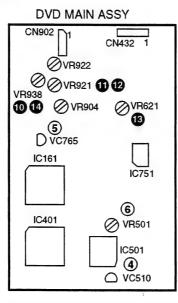
- Master Clock Adjustment (マスタークロック調整)
- (5) VCO Offset Adjustment (VCOオフセット調整)
- ⑥ Video Output Adjustment (ビデオ出力調整)

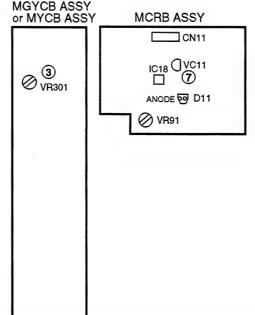
MCRB

- ⑦ MCRB Master CLK Adjustment (MCRBマスターCLK調整)
- 8 MCRB Inverter Burst Adjustment (MCRB反転バースト調整)

Adjustment Points (PCB Part)

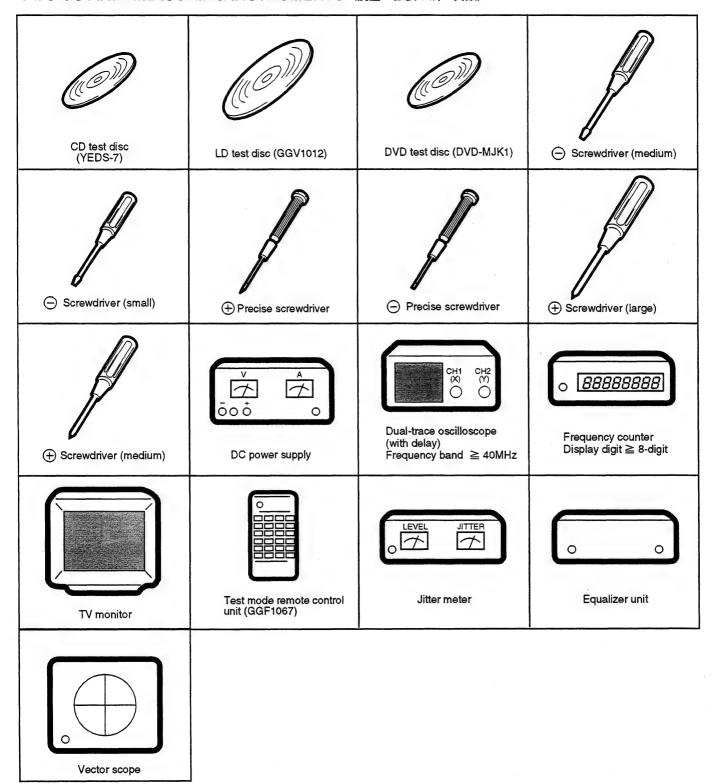






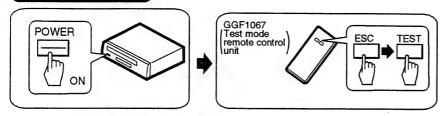
Adjustment Points (Mechanism Part) CLD [Side A] Side A centering adjustment screw (A面芯出し調整ネジ) Adjustment range (調整範囲) 80° 80° Mechanism assy 2 Side A tangential adjustment screw (A面タンジェンシャル調整ネジ) Adjustment range (調整範囲) 80,180, Carriage assy [Side B] 8 Side B centering adjustment screw (B面芯出し調整ネジ) Adjustment range (調整範囲) 30° 90° Carriage **7** Side B tangential adjustment screw (B面タンジェンシャル調整ネジ) assy В Adjustment range (調整範囲) (1) Black screw-±2 turns Loosen → Adjust → Tighten (apply the lock-tight) 0.0 Tilt base (upper) O DVD 10 12 DVD tangential adjustment screw (DVDタンジェンシャル調整ネジ) **DVD** Carriage assy Note : Apply the lock-tight. (調整ネジは, 調整後ボンドロックする.)

6.2 JIGS AND MEASURING INSTRUMENTS (調整に必要な治工具類)

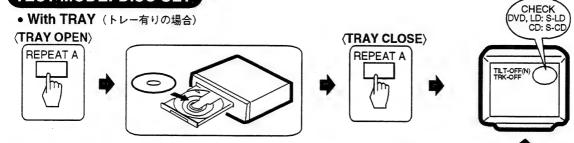


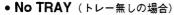
6.3 TEST MODE (テストモード)

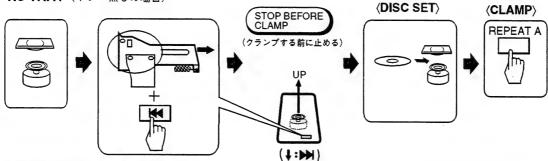
TEST MODE: ON



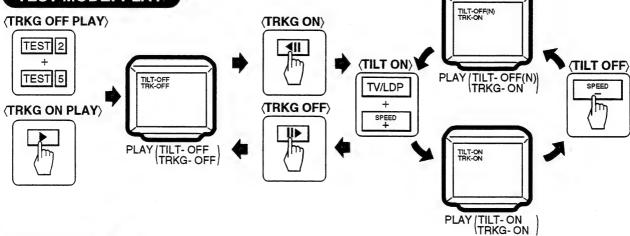
TEST MODE: DISC SET



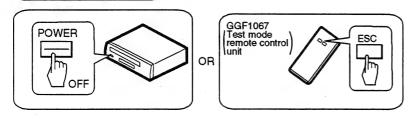




TEST MODE: PLAY



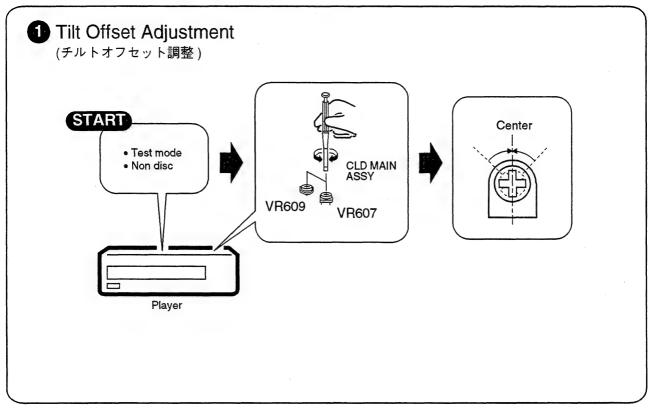
TEST MODE: OFF

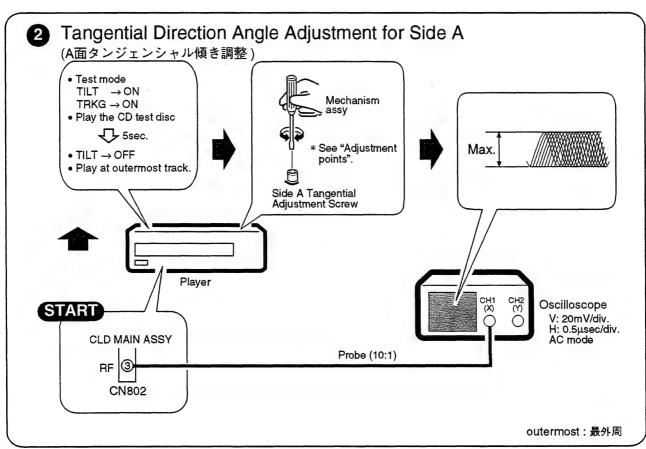


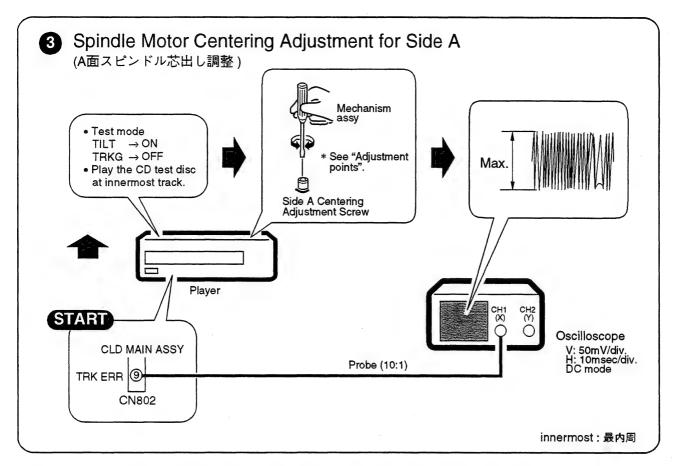
6.4 NECESSARY ADJUSTMENT POINTS (必要な調整項目)

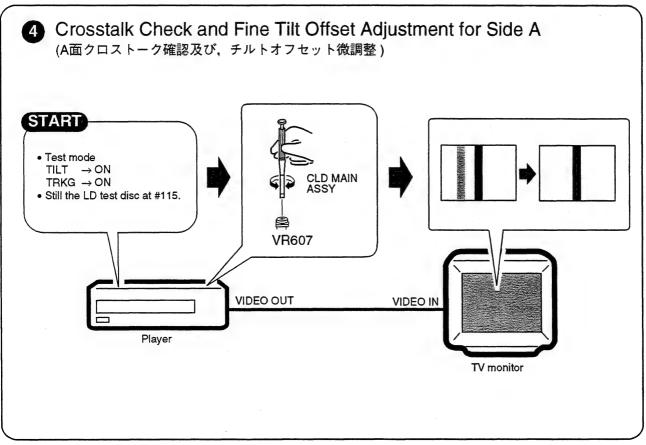
When (このような時)	Adjustment Points
■ EXCHANGE MECHANISM ASSY PARTS (メカASSY部品を交換したとき)	
Exchange pickup (CLD) (CLDのピックアップを交換したとき)	Mechanical point 0,2,3,4,5,6,7,8,9
7	Electric
Exchange pickup (DVD) (DVDのピックアップを交換したとき)	Mechanical point 0,0,0,0,0
	Electric point
Exchange spindle motor (スピンドルモータを交換したとき)	Mechanical point 3,8
7	Electric
■ EXCHANGE PCB ASSY (PCB ASSYを交換したとき)	
Exchange board	Mechanical 0,4,5,6,9
CLD MAIN ASSY (マザーボードを交換したとき)	Electric
	point
	Note: ①, ② and ③ are adjusted already. (①,②,③は調整済)
Exchange board DVD MAIN ASSY (マザーボードを交換したとき)	Mechanical point 10,10,12,13,14
((* りーホートを交換したとき)	Electric point
	Note: ④, ⑤ and ⑥ are adjusted already. (④,⑤,⑥は調整済)
Exchange board MCRB ASSY	Mechanical point
(MCRB ASSYを交換したとき)	Electric point
	Note: ⑦ and ⑧ is adjusted already. (⑦, ⑧は調整済)

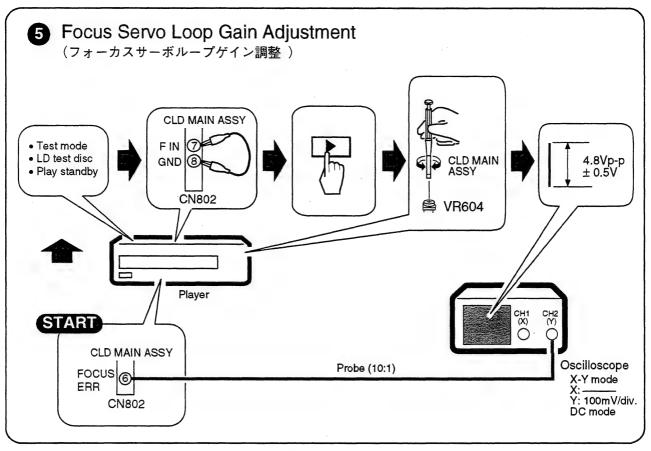
6.5. MECHANICAL ADJUSTMENT (機構系の調整)

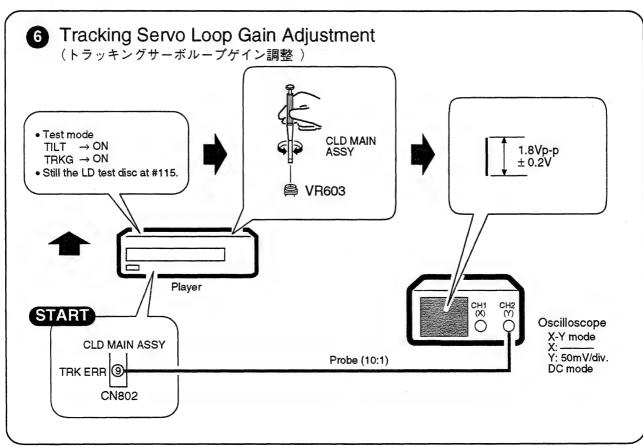


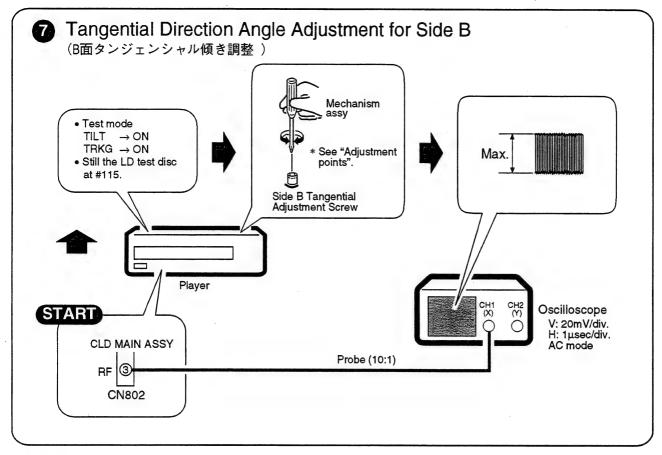


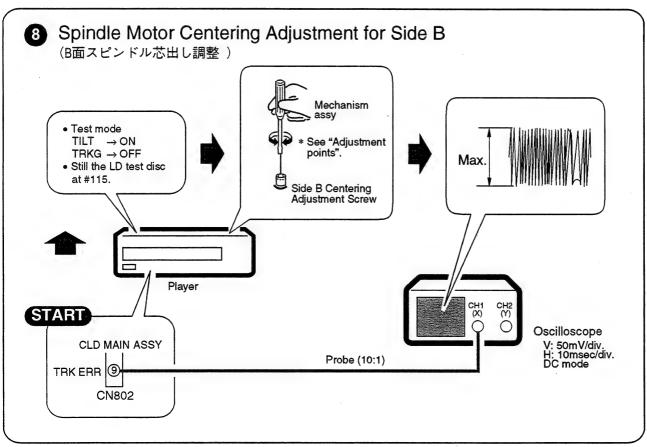


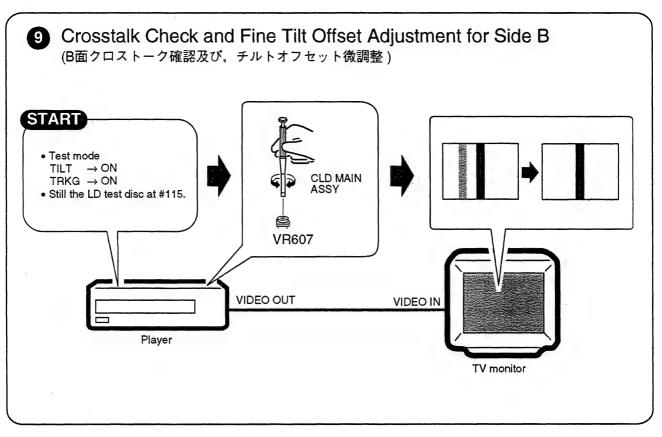


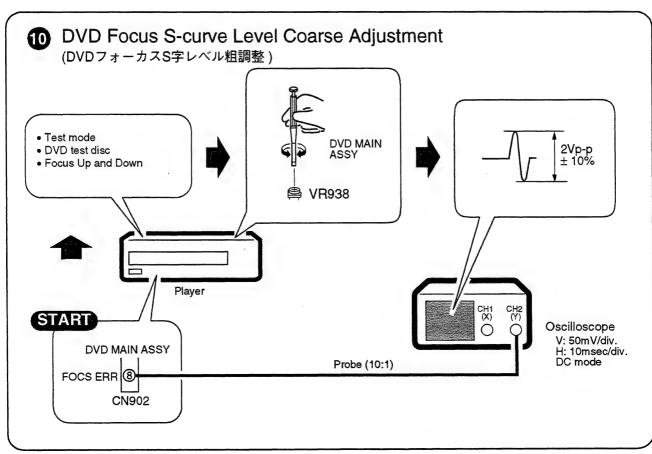


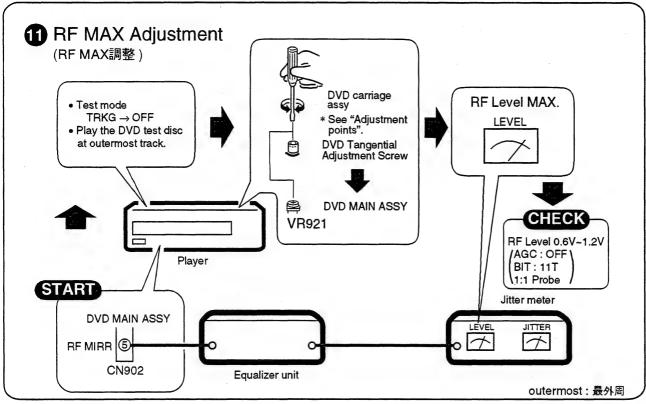


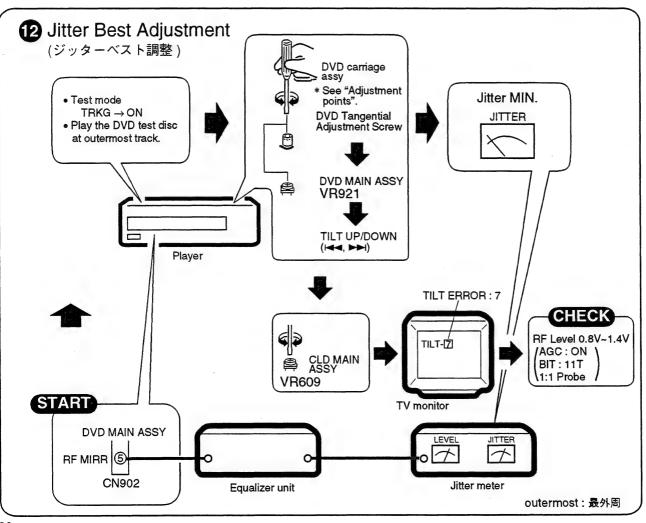


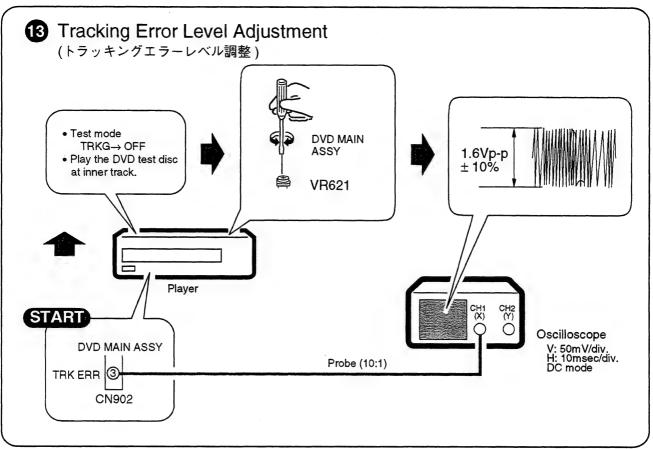


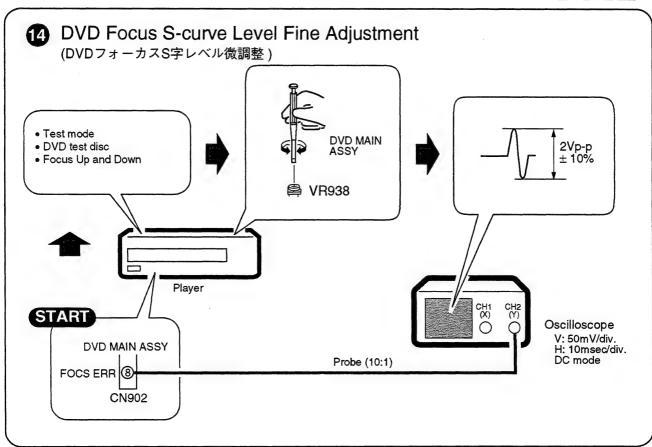




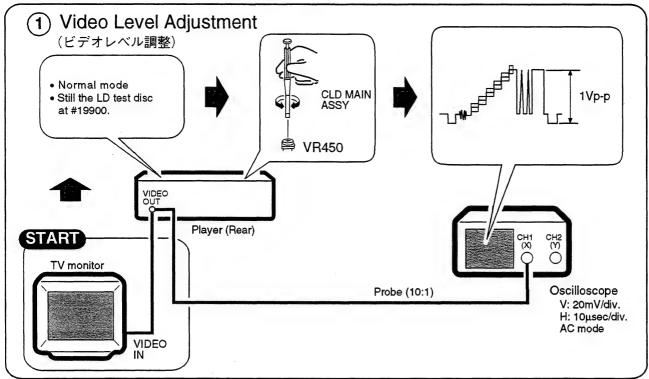


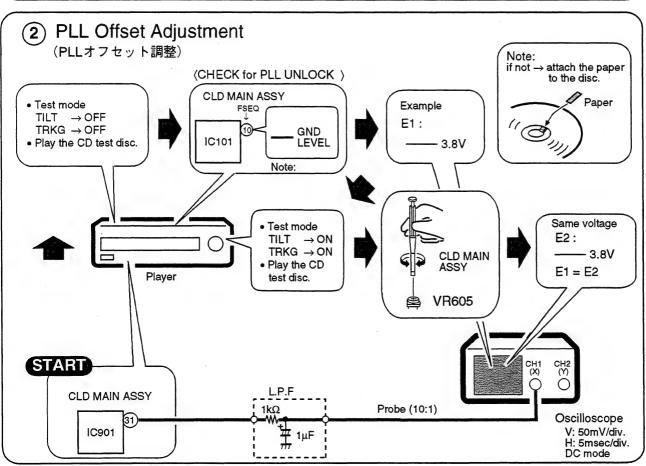


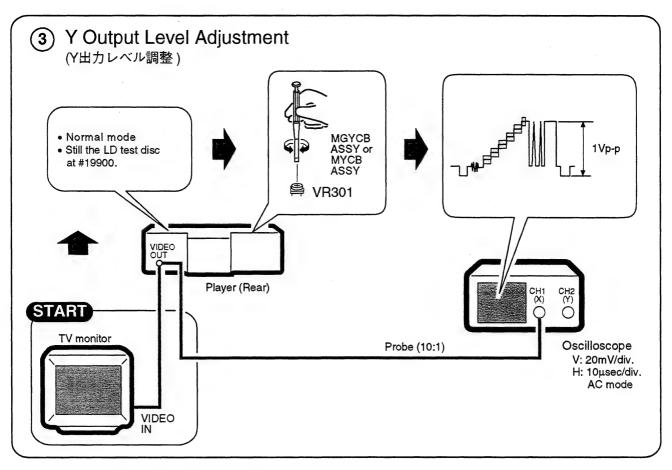


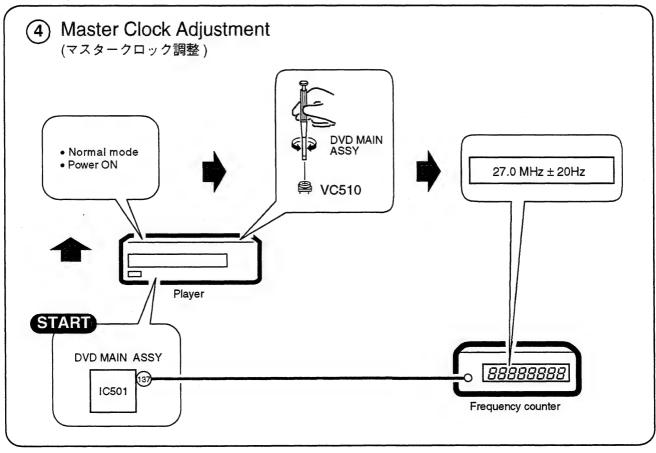


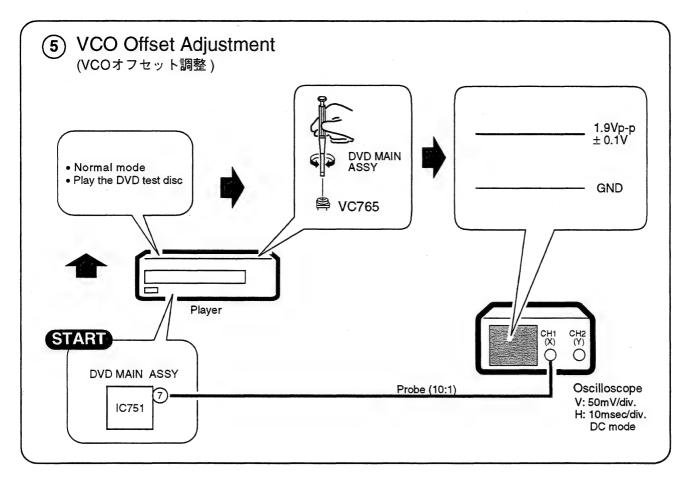
6.6 ELECTRICAL ADJUSTMENT (電気系の調整)

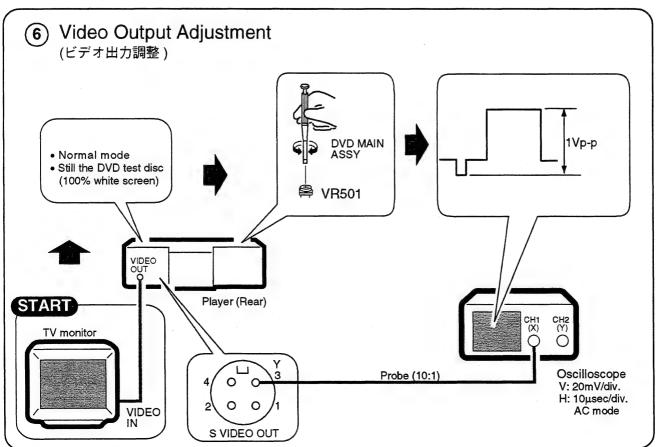


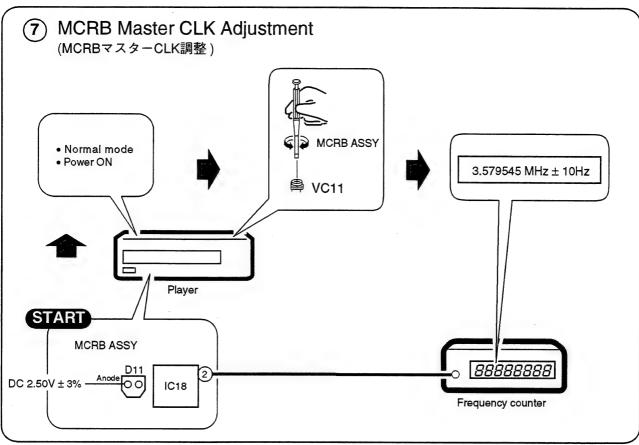


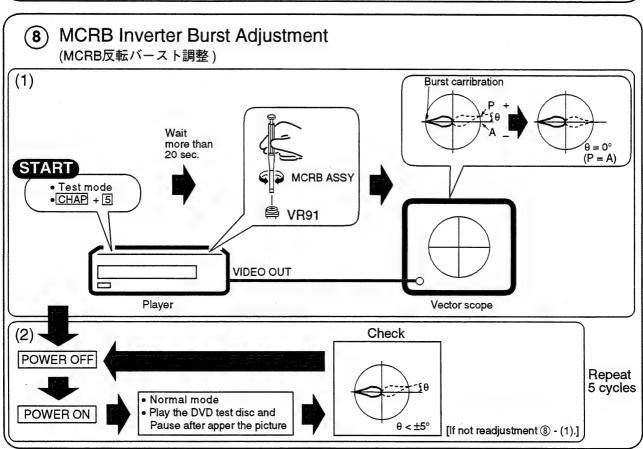






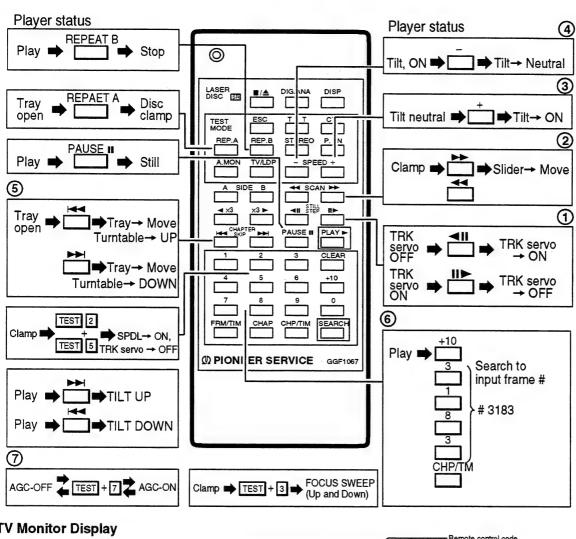




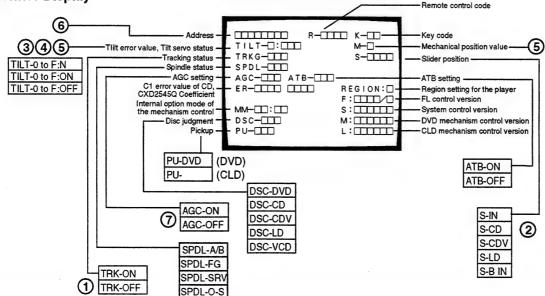


6.7 OPERATIONS IN THE TEST MODE (テストモード時のサービス用リモコン操作方法)

Test Mode Remote Control Unit (GGF1067)





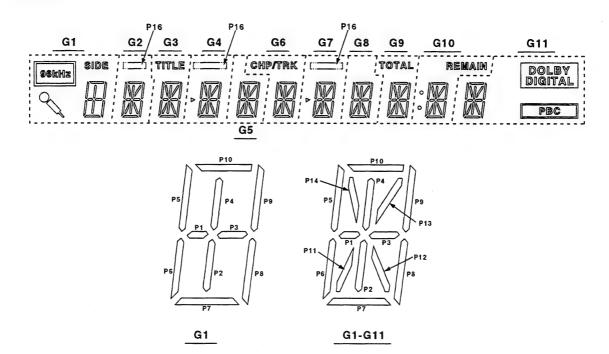


7. GENERAL INFORMATION

7.1 DISPLAY

VAW1042 (FLPB ASSY: V101)

• FL DISPLAY



• ANODE AND GRID ASSIGNMENT

7.41	TODEA		D ACCI	OIT THE E	•						
	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11
P1	P1	P1	P1	P1	P1	P1	P1	P1	P1	P1	P1
P2	P2	P2	P2	P2	P2	P2	P2	P2	P2	P2	P2
P3	P3	P3	P3	P3	P3	P3	P3	P3	P3	P3	P3
P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4
P5	P5	P5	P5	P5	P5	P5	P5	P5	P5	P5	P5
P6	P6	P6	P6	P6	P6	P6	P6	P6	P6	P6	P6
P7	P7	P7	P7	P7	P7	P7	P7	P7	P7	P7	P7
P8	P8	P8	P8	P8	P8	P8	P8_	P8	P8	P8	P8
P9	P9	P9	P9	P9	P9	P9	P9	P9	P9	P9	P9
P10	P10	P10	P10	P10	P10	P10	P10	P10	P10	P10	P10
P11		P11	P11	P11	P11	P11	P11	P11	P11	P11	P11
P12	8	P12	P12	P12	P12	P12	P12	P12	P12	P12	P12
P13	96kHz	P13	P13	P13	P13	P13	P13	P13	P13	P13	P13
P14		P14	P14	P14	P14	P14	P14	P14	P14	P14	P14
P15										00	PBC
P16	SIDE	P16	TITLE	P16		CHP/TRK	P16		TOTAL	REMAIN	DOLBY

• PIN ASSIGNMENT

Pin No.	1	2	3	4	5	6	7	8	9	10	11-	24	25	26	27	28	29	30	31	32
Assignment	F1	F1	NP	NL	P16	P15	P14	P13	P12	P11	N	L	P10	P9	P8	P7	P6	NL	P5	P4
Pin No.	33	34	35	36-	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
Assignment	P3	P2	P1	N	L	G11	G10	G9	G8	G7	G6	G5	G4	G3	G2	G1	NL	NP	F2	F2

F1, F2: Filament G1-G11: Grid P1-P16: Anode NP: No Pin NL: No Lead

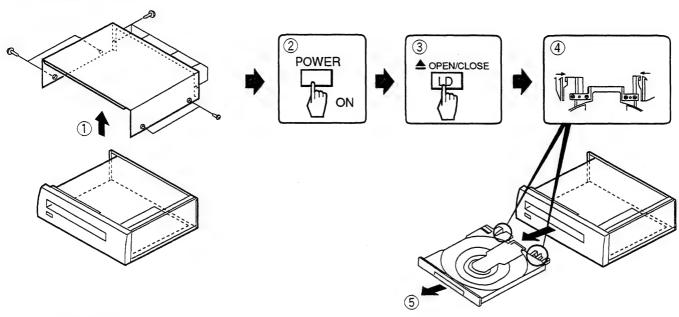
7.2 DISASSEMBLY/ASSEMBLY (分解/組立の手順)

(1) DISC TRAY

• Disassembly : $1 \rightarrow 2 \rightarrow 3 \rightarrow 4 \rightarrow 5$

Assembly

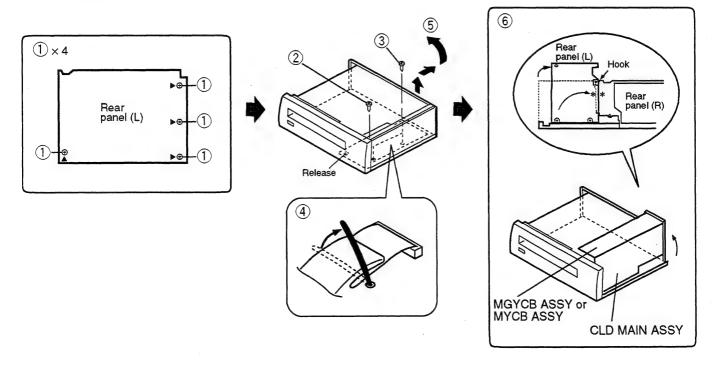
: 5-1



(2) CLD MAIN ASSY

• Disassembly : $1 \rightarrow 2 \rightarrow 3 \rightarrow 4 \rightarrow 5 \rightarrow 6$

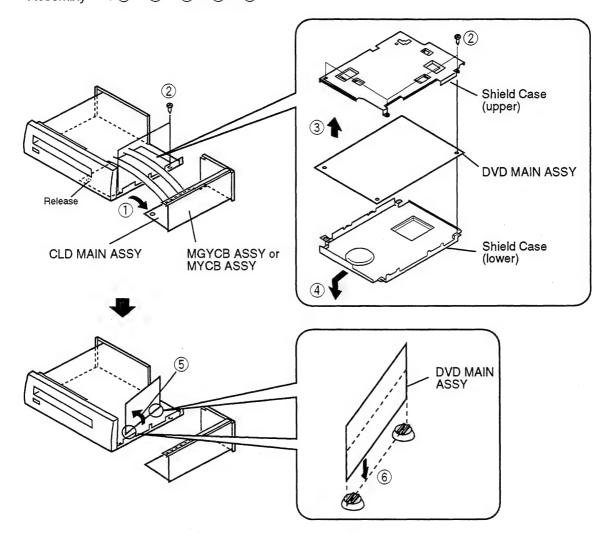
 $: 6 \rightarrow 5 \rightarrow 4 \rightarrow 3 \rightarrow 2 \rightarrow 1$ Assembly



(3) DVD MAIN ASSY

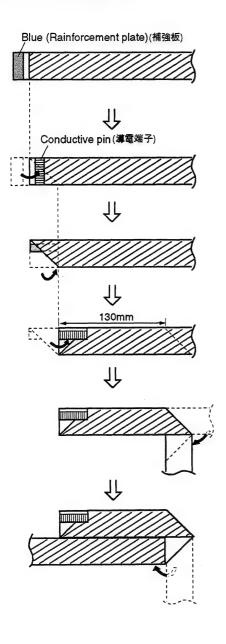
• Disassembly : $1 \rightarrow 2 \rightarrow 3 \rightarrow 4 \rightarrow 5 \rightarrow 6$

• Assembly : 6→4→3→2→1

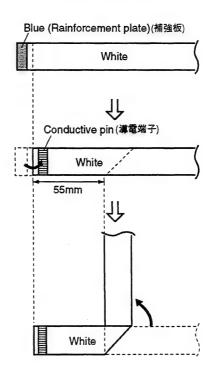


7.3 HOW TO BEND THE FLEXIBLE CABLE (フレキシブルケーブルの折り方)

(1) THE FLEXIBLE CABLE FOR CLD CARRIAGE ASSY

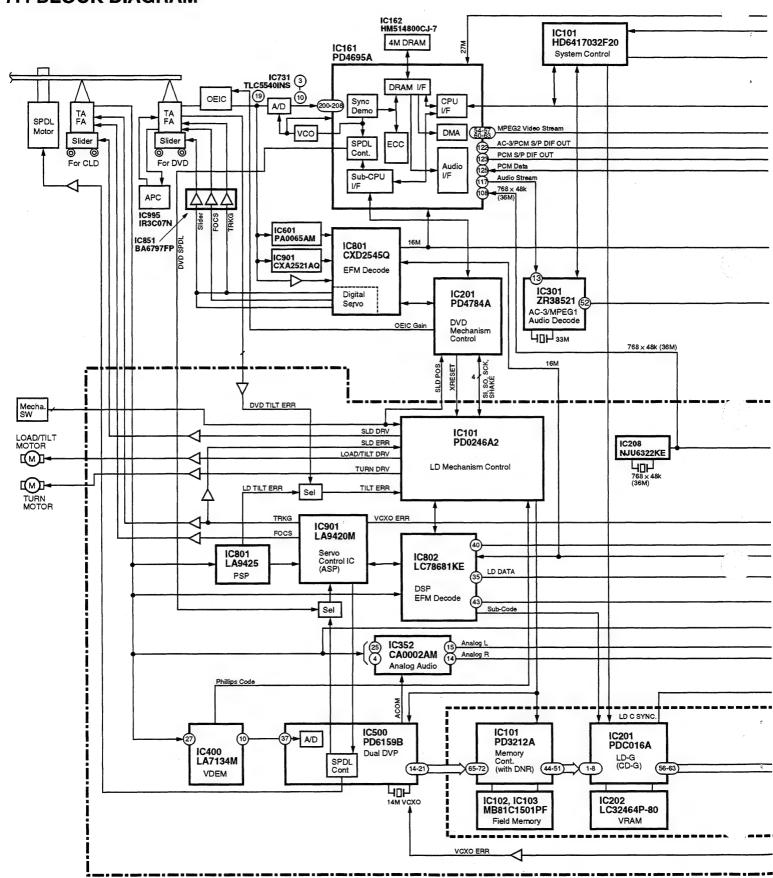


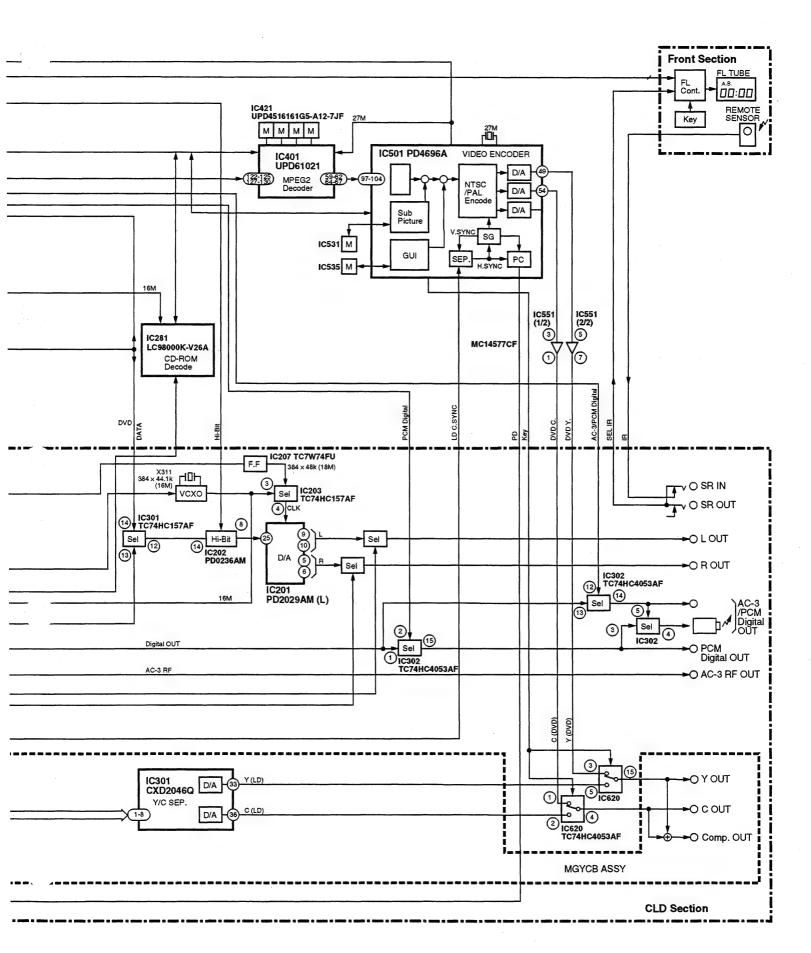
(2) THE FLEXIBLE CABLE FOR DVD CARRIAGE ASSY



: Part rating indication side (部品定格表示側)

7.4 BLOCK DIAGRAM

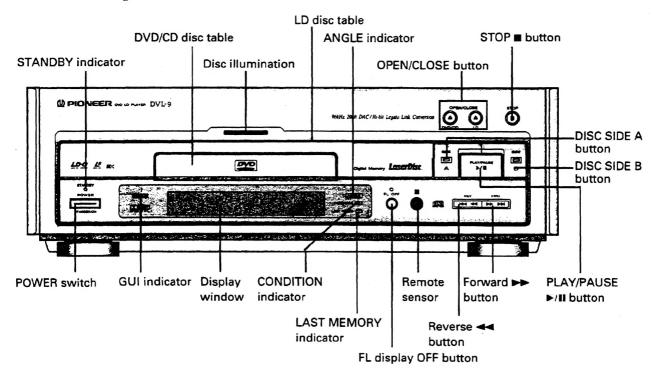


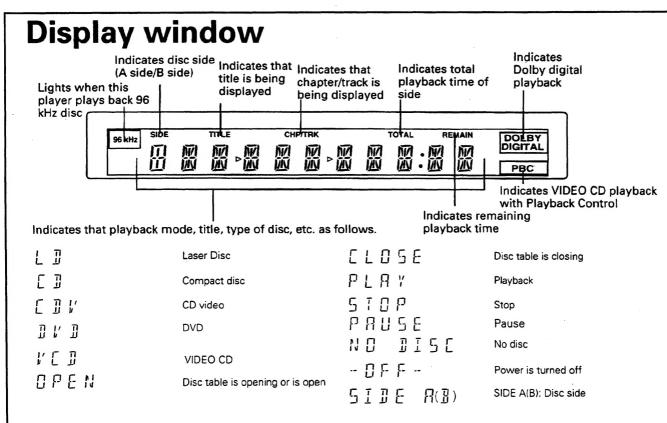


8. PANEL FACILITIES AND SPECIFICATIONS

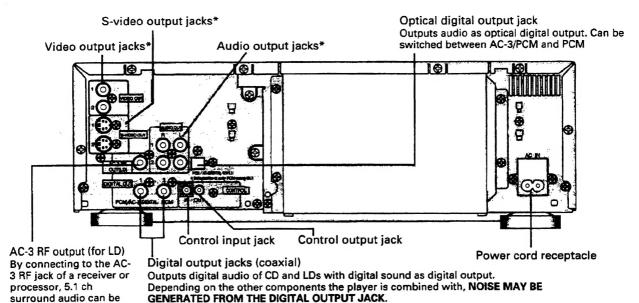
8.1 PANEL FACILITIES

Front panel





Rear panel



When connecting to an AC-3 compatible component, please connect to the PCM/AC-3 jack. Other components should be connected to the PCM jack. (Refer to the list below.)

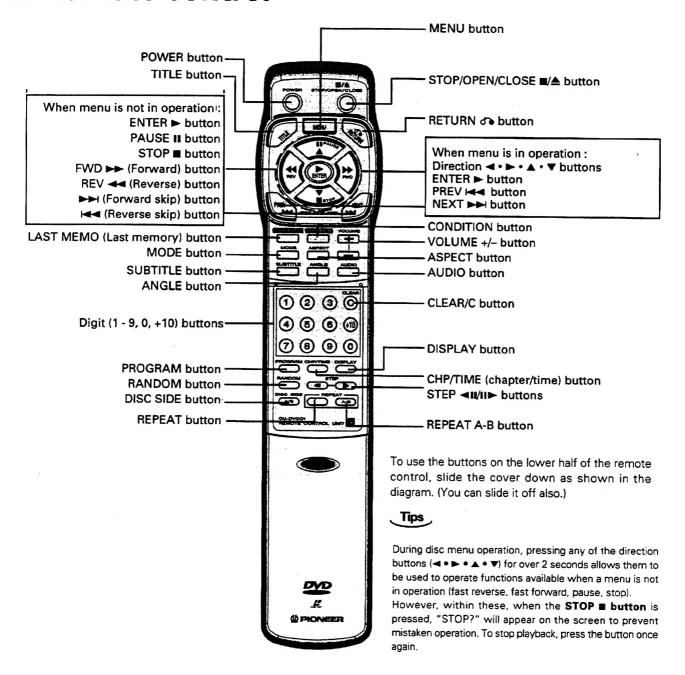
* There are two jacks, allowing 2 systems to be connected at the same time. For example, one can be connected to the TV and the other can be connected to an AV amplifier.

enjoyed.

Your	Regular AV amplifier		Connect to PCM jack Connect to PCM/AC-3 DIGITAL (OPT) output jack and select PCM using the menu
home amplifier		Coaxial	Connect to PCM/AC-3 DIGITAL jack
	AC-3 compatible amplifier	Optical	Connect to PCM/AC-3 DIGITAL (OPT) output
			jack and select AC-3/PCM using the menu

		רזרחרח	Charac
R I M	Random playback	STEREO	Stereo
PROGRAM	Program mode	MENU	Menu mode
R_TRK	Track/chapter repeat playback	TITLE	Title menu
R _ A	Start point of 2 point repeat playback	CHRPIER	Chapter menu
R _ R B	2-point repeat playback	SUB-TITLE	Sub-title menu
R_TTL	Title repeat playback	SETUP	Set-up menu
R_SID	LD both-side repeat playback	ANGLE	Angle menu
COND MEMOR	7 1	A U D 10	Audio menu
	Condition memory	DOLBY DIGIT	AL 5, 16H
LAST MEMO	7 R Y		Dolby digital surround
	Last memory playback		5.1 ch
CINEMAI	Cinema 1 mode	PEM 96K	96K PCM audio
CINEMAZ	Cinema 2 mode	P [M 48 K	48K PCM audio
RNIMATION	Animation mode	MPEG AUIIO	MPEG1 or MPEG2 audio
STRNDARD	Standard mode		

■ Remote control



8.2 SPECIFICATIONS

General

System	DVD system, LaserVision DIsc system,
VIDEO CD sy	stem and Compact Disc digital audio system
Power requirements:	AC 110-120/220-240 V, 50/60 Hz
	65 W
Weight	
Dimensions	
	(Not including protruding cables, etc.)
Operating temperature	+5°C to +35°C (+36°F to +96°F)
Operating humidity	5% to 85% (no condensation)

S-Video Outputs (2 pairs)

"1" is the S-VIDEO output and "2" is t	he S2-VIDEO output.
Y (luminance) - Output level	1 Vp-p (75 Ω)
C (color) - Output level	
Jacks	S-VIDEO jacks

Video Outputs (2 pairs)

Output level	1 Vp-p (75 Ω loaded, negative sync)
Jacks	RCA jacks

Audio Outputs (2 pairs)

Output level	
Analog audio output	200 mVrms (1 kHz, 40%)
Digital audio output	200 mVrms (1 kHz, -20 dB)
Jacks	RCA jacks

Digital audio characteristics (DVD fs = 48 kHz)

Frequency response	4 Hz to 22 kHz (DVD fs: 48 kHz) 4 Hz to 20 kHz (LD, CD)	
S/N ratio	115 dB (EIAJ)	
Dynamic range	97 dB (EIAJ)	
Total harmonic distortion	0.0028 %	
Wow and flutter	Limit of measurement (±0.001% W. PEAK) or lower (EIAJ)	

Other Terminals

Optical digital output (PCM/AC-3)	Optical digital jack
Coaxial digital output(PCM/AC-3)	
Coaxial digital output (PCM)	
AC-3RF output (for LD)	RCA type pin jack
CONTROL IN	Minijack (3.5mm dia.)
CONTROL OUT	Minijack (3.5mm dia.)

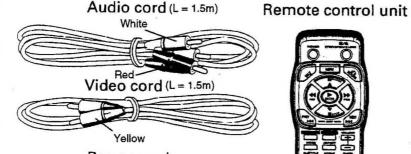
Accessories

Remote control unit
AAA/R03 dry cell batteries
Audio cord
Video cord
Power cord
Operating Instructions
Warranty card 1

NOTE:

The specifications and design of this product are subject to change without notice, due to improvement.

Accessories



Power cord



<Round blade 2-pin AC plug model>



Use a power cord that matches your wall power socket. When the unit is used in Singapore, Malaysia or Indonesia, be sure to use a power cord with a 2-pin round-blade plug and do not use that with a 2-pin flat-blade plug.

Batteries....2



- Warranty card
- Operating Instructions